INVENTOR SEARCH

=> d his 1101

(FILE 'HCAPLUS' ENTERED AT 11:20:11 ON 27 JUL 2007) L101 26 S L100 AND L50

=> d que 1101

L48 QUE ABB=ON PLU=ON PY<2003 OR PRY<2003 OR AY<2003 OR

MY<2003 OR REVIEW/DT

L50 QUE ABB=ON PLU=ON IMMUNOSUPPRES? OR IMMUNOREG? OR IM

MUN?(A) (SUPPRESS? OR REG?)

L97 1272 SEA FILE=HCAPLUS ABB=ON PLU=ON ("DOHERTY, GEORGE

A."/AU OR "FORREST, MICHAEL J."/AU OR "HAJDU, RICHARD"/ AU OR "HALE, JEFFREY J."/AU OR "LI, ZHEN"/AU OR "MANDALA, SUZANNE M."/AU OR "MILLS, SANDER G."/AU OR

"ROSEN, HUGH"/AU OR "SCOLNICK, EDWARD M."/AU)

L98 QUE ABB=ON PLU=ON MERCK?/PA,CS,SO,CO

L99 714 SEA FILE=HCAPLUS ABB=ON PLU=ON L97 AND L48

L100 228 SEA FILE=HCAPLUS ABB=ON PLU=ON L99 AND L98

L101 26 SEA FILE=HCAPLUS ABB=ON PLU=ON L100 AND L50

=> d his 1131

(FILE 'MEDLINE, BIOSIS, DRUGU, EMBASE' ENTERED AT 12:40:59 ON 27 JUL 2007)

L131 6 S L130 AND (L50 OR L59) SAV L131 JEA176MULTIN/A

FILE 'STNGUIDE' ENTERED AT 12:44:10 ON 27 JUL 2007

FILE 'HCAPLUS' ENTERED AT 12:45:23 ON 27 JUL 2007 SAV L101 JEA176HCPIN/A

FILE 'STNGUIDE' ENTERED AT 12:46:17 ON 27 JUL 2007

=> d que 1131

L48 QUE ABB=ON PLU=ON PY<2003 OR PRY<2003 OR AY<2003 OR MY<2003 OR REVIEW/DT

L50 QUE ABB=ON PLU=ON IMMUNOSUPPRES? OR IMMUNOREG? OR IMMUN?(A) (SUPPRESS? OR REG?)

L59 QUE ABB=ON PLU=ON EDG1(A)S1P?

L97 1272 SEA FILE=HCAPLUS ABB=ON PLU=ON ("DOHERTY, GEORGE

A."/AU OR "FORREST, MICHAEL J."/AU OR "HAJDU, RICHARD"/
AU OR "HALE, JEFFREY J."/AU OR "LI, ZHEN"/AU OR
"MANDALA, SUZANNE M."/AU OR "MILLS, SANDER G."/AU OR

"ROSEN, HUGH"/AU OR "SCOLNICK, EDWARD M."/AU)

L98 QUE ABB=ON PLU=ON MERCK?/PA,CS,SO,CO

L128 608 SEA L97

L129 277 SEA L128 AND L98

L130 143 SEA L129 AND L48

L131 6 SEA L130 AND (L50 OR L59)

=> dup rem 1101 1131

FILE 'HCAPLUS' ENTERED AT 12:49:36 ON 27 JUL 2007 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

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FILE 'MEDLINE' ENTERED AT 12:49:36 ON 27 JUL 2007

FILE 'BIOSIS' ENTERED AT 12:49:36 ON 27 JUL 2007 Copyright (c) 2007 The Thomson Corporation

PROCESSING COMPLETED FOR L101

PROCESSING COMPLETED FOR L131

L132 29 DUP REM L101 L131 (3 DUPLICATES REMOVED) ANSWERS '1-26' FROM FILE HCAPLUS ANSWERS '27-29' FROM FILE BIOSIS

INVENTOR SEARCH RESULTS

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=> d 1132 1-29 ibib ed ab
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L132 ANSWER 1 OF 29 HCAPLUS COPYRIGHT 2007 ACS on STN DUPLICATE 1

ACCESSION NUMBER: 2002:301209 HCAPLUS Full-text

DOCUMENT NUMBER: 137:241872

TITLE: Alteration of lymphocyte trafficking by

sphingosine-1-phosphate receptor agonists

AUTHOR(S): Mandala, Suzanne; Hajdu, Richard;

Bergstrom, James; Quackenbush, Elizabeth; Xie, Jenny; Milligan, James; Thornton, Rosemary; Shei, Gan-Ju; Card, Deborah; Keohane,

Shei, Gan-Ju; Card, Deborah; Keohane, Carolann; Rosenbach, Mark; Hale, Jeffrey; Lynch, Christopher L.; Rupprecht, Kathleen;

Parsons, William; Rosen, Hugh

CORPORATE SOURCE: Departments of Immunology and Rheumatology,

Merck Res. Laboratories, Rahway, NJ,

07065, USA

SOURCE: Science (Washington, DC, United States) (

2002), 296(5566), 346-349 CODEN: SCIEAS; ISSN: 0036-8075

PUBLISHER: American Association for the Advancement of

Science

DOCUMENT TYPE: Journal LANGUAGE: English ED Entered STN: 23 Apr 2002

Blood lymphocyte nos., essential for the development of efficient immune responses, are maintained by recirculation through secondary Lymphoid organs. We show that lymphocyte trafficking is altered by the lysophospholipid sphingosine-1-phosphate (S1P) and by a phosphoryl metabolite of the immunosuppressive agent FTY720. Both species were high-affinity agonists of at least four of the five S1P receptors. These agonists produce lymphopenia in blood and thoracic duct lymph by sequestration of lymphocytes in lymph nodes, but not spleen. S1P receptor agonists induced emptying of lymphoid sinuses by retention of lymphocytes on the abluminal side of sinus-lining endothelium and inhibition of egress into lymph. Inhibition of lymphocyte recirculation by activation of S1P receptors may result in therapeutically useful immunosuppression.

REFERENCE COUNT: 26 THERE ARE 26 CITED REFERENCES AVAILABLE

FOR THIS RECORD. ALL CITATIONS AVAILABLE

IN THE RE FORMAT

L132 ANSWER 2 OF 29 HCAPLUS COPYRIGHT 2007 ACS on STN DUPLICATE 2

ACCESSION NUMBER: 2000:618629 HCAPLUS Full-text

DOCUMENT NUMBER: 133:275898

TITLE: Efficacy of the echinocandin caspofungin against disseminated aspergillosis and candidiasis in cyclophosphamide-induced

immunosuppressed mice

AUTHOR(S): Abruzzo, George K.; Gill, Charles J.;

Flattery, Amy M.; Kong, Li; Leighton, Claire;

Smith, Jeffrey G.; Pikounis, V. Bill;

Bartizal, Ken; Rosen, Hugh

CORPORATE SOURCE: Infectious Diseases, Merck Research

Laboratories, Rahway, NJ, 07065-0900, USA

SOURCE: Antimicrobial Agents and Chemotherapy (

2000), 44(9), 2310-2318

CODEN: AMACCQ; ISSN: 0066-4804

PUBLISHER: American Society for Microbiology

DOCUMENT TYPE: Journal LANGUAGE: English ED Entered STN: 06 Sep 2000

AB The in vivo efficacy of the echinocandin antifungal caspofungin acetate (caspofungin; MK-0991) was evaluated in models of disseminated aspergillosis and candidiasis in mice with cyclophosphamide (CY)-induced immunosuppression. Caspofungin is a 1,3- β -D-glucan synthesis inhibitor efficacious against a number of clin. relevant fungi including

Aspergillus and Candida species. Models of CY-induced transient or chronic leukopenia were used with once daily administration of therapy initiated 24 h after microbial challenge. Caspofungin was effective in treating disseminated aspergillosis in mice that were transiently leukopenic (significant prolongation of survival at doses of ≥0.125 mg/kg of body weight and a 50% protective dose [PD50] of 0.245 mg/kg/day at 28 days after challenge) or chronically leukopenic (50 to 100% survival at doses of ≥0.5 mg/kg and PD50s ranging from 0.173 to 0.400 mg/kg/day). Caspofungin was effective in the treatment and sterilization of Candida infections in mice with transient leukopenia with a 99% ED based on reduction in log10 CFU of Candida albicans/g of kidneys of 0.119 mg/kg and 80 to 100% of the caspofungin-treated mice having sterile kidneys at caspofungin doses from 0.25 to 2.0~mg/kg. In Candida-infected mice with chronic leukopenia, caspofungin was effective at all dose levels tested (0.25 to 1.0 mg/kg), with the log10 CFU of C. albicans/g of kidneys of caspofungin-treated mice being significantly lower (>99% reduction) than that of sham-treated mice from day 4 to day 28 after challenge. Also, 70 to 100% of the caspofungin-treated, chronic leukopenic mice had sterile kidneys at caspofungin doses of 0.5 to 1.0 mg/kg from day 8 to 28 after challenge. Sterilization of Candida infections by caspofungin in the absence of host leukocytes provides compelling in vivo evidence for fungicidal activity against C. albicans. Further human clin. trials with caspofungin against serious fungal infections are in progress.

REFERENCE COUNT: 24 THERE ARE 24 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE

IN THE RE FORMAT

L132 ANSWER 3 OF 29 HCAPLUS COPYRIGHT 2007 ACS on STN ACCESSION NUMBER: 2004:566538 HCAPLUS <u>Full-text</u>

DOCUMENT NUMBER: 141:123484

TITLE: Preparation of 1-(amino)indanes and (1,2-dihydro-3-amino)-benzofurans,

benzothiophenes and indoles as EDG receptor

APPLICATION NO.

DATE

agonists

INVENTOR(S): Doherty, George A.; Hale, Jeffrey J.; Mills, Sander G.

KIND

PATENT ASSIGNEE(S): Merch & Co., Inc., USA SOURCE: PCT Int. Appl., 83 pp.

CODEN: PIXXD2

DATE

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.

WO	2004	- 0581	49		A2		2004	0715	1	WO 2	003-	US40	129			003
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		ES,	FΙ,	GB,	GD,	GE,	GH,	GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	
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OTHER SOURCE(S): MARPAT 141:123484

ED Entered STN: 15 Jul 2004

AB Compds. of formula I [G = C(R4)2, O, S, SO, SO2; X = Ph, alkyl, etc.; Y = (C(R4))p; Z = alkyl, heterocyclo, etc.; A = CO2H, PO3H2, SO3H, tetrazolyl, etc.; each R1 = H, halo, OH, alkyl, alkoxy; R2 = H, halo, OH, alkyl, alkoxy; R3 = H, alkyl; R2R3 = (substituted) alkylene; R4 = H, alkyl; R5 = halo, alkyl, alkoxy; n = 0-1; p = 1-3] are prepared as EDG receptor agonists. The compds. are useful for treating immune mediated diseases and conditions, such as bone marrow, organ and tissue transplant rejection. Pharmaceutical compns. and methods of use are included. Thus, II was prepared from azetidine-3-carboxylic acid and the prepared indanone derivative. The prepared compds. had > 100-fold selectivity of EDG1 over EDG3.

L132 ANSWER 4 OF 29 HCAPLUS COPYRIGHT 2007 ACS on STN ACCESSION NUMBER: 2004:412748 HCAPLUS Full-text

DOCUMENT NUMBER: 140:423677

TITLE: Preparation of 3-(tetrahydropyranylamino)cyclo

pentanecarboxylic acid N-benzylamide derivatives and related compounds as modulators of chemokine receptor activity

INVENTOR(S): Butora, Gabor; Mills, Sander G.;
Pasternak, Alexander; Shankaran,

Kothandaraman; Yang, Lihu; Zhou, Changyou;

Goble, Stephen D.

PATENT ASSIGNEE(S): Merck & Co., Inc., USA SOURCE: PCT Int. Appl., 261 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004041161	A2	20040521	WO 2003-US33972	2003 1024
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     EP 1558243
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PRIORITY APPLN. INFO.:
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OTHER SOURCE(S): MARPAT 140:423677

ED Entered STN: 21 May 2004

The title compds. (I) [wherein: X = O, NR20, S, SO, SO2, CR21R22, NSO2R20, NCOR20, NCO2R20, CR21CO2R20, CR21OCOR20, CO, OC (Me) 2O (where R20 = H, C1-6 alkyl, benzyl, Ph, C1-6 alkyl, benzyl, beC3-6 cycloalkyl, etc.; R21, R22 = H, HO, C1-6 alkyl, C1-6 alkoxy, benzyl, Ph, C3-6 cycloalkyl, etc.); R1 = C1-6 alkyl, C1-6 alkoxy-C0-6 alkyl, C1-6 alkyl-S(0)0-2-C0-6alkyl, N-(un)substituted C1-6 alkylaminosulfonyl-C0-6alkyl, -(C0-6 alkyl)(C3-7 cycloalkyl)(C0-6 alkyl), Ho, C02R20, heterocyclyl, cyano, NR20R26, NR26S02R20, NR26COR21, OCOR20, Ph (where R26 = H, C1-6 alkyl, benzyl, Ph, etc.); R2, R4, R6 = H, C1-6 alkyl, CF3, CF30, Cl, Br, Ph; R3 = H, H0, halo, C1-6 alkyl, C1-6 alkoxy, , NR20R21, NR20C02R21, NR20C0NR20OR21, NR20S02NR20R21, NR20S02R21, heterocyclyl, cyano, CONR20R21, CO2R20, NO2, SR20, SOR20, SO2R20, SO2NR20R21: R5 = C1-6 alkyl substituted with 1-6 F and optionally substituted with HO, C1-6 alkoxy or CO-C1-6 alkyl each substituted with 1-6 fluoro, C1-6 alkylthio, pyridyl, F, C1, Br, Ph; R7 = H, C1-6 alkyl, CF3; R8, R9, R10 = H, (un)substituted C1-6 alkyl; or R7 and R8 or R8 and R9 may be joined together to form a ring; R11 = H, C1-6 alkyl, CF3; R27, R28 = oxo, H, Ph, (un)substituted C1-6 alkyl; R29, R30, R31 = H, Me, H0, CF3, MeO, CF30; or R29 and R9 are connected by a C1-3alkyl bridge; m, n = 0-2; the dashed line = a single or a double bond] and pharmaceutically acceptable salts thereof and individual diastereomers thereof are prepared These compds. are useful as modulators of the chemokine receptor CCR-2 for (a) treating, ameliorating or controlling or reducing the risk of an inflammatory or immunoregulatory disorder or disease or (b) treating, ameliorating or controlling rheumatoid arthritis (no data). Thus, reductive amination of N-[3,5bis(trifluoromethyl)benzyl]-3-oxo-1-isopropylcyclopentane-1- carboxamide with 4-

aminotetrahydro-4H-pyran hydrochloride using triacetoxyborohydride in the presence of diisopropylethylamine in CH2Cl2 at room temperature overnight gave 46% N-[3,5-bis(trifluoromethyl)benzyl]-3-(tetrahydro-4H-pyran-4-ylamino)-oxo- 1-isopropylcyclopentane-1-carboxamide (II).

L132 ANSWER 5 OF 29 HCAPLUS COPYRIGHT 2007 ACS on STN ACCESSION NUMBER: 2003:719274 HCAPLUS Full-text

DOCUMENT NUMBER: 139:246116

TITLE: Preparation of aminoalkylphosphonates and

related compounds as EDG receptor agonists

INVENTOR(S): Doherty, George A.; Hale,

Jeffrey J.

PATENT ASSIGNEE(S): Merch & Co., Inc., USA SOURCE: PCT Int. Appl., 75 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

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US	2005.	1073	45		A1		2005	0519		US 2	003-	5052	68			
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															2002	
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WO 2003-US7262

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2003 0225

OTHER SOURCE(S): MARPAT 139:246116

ED Entered STN: 14 Sep 2003

The present invention encompasses title compds., A-X[CR1R2]mCHNH2[CR3R4]pC(R9)3 (m = 1-4; p = 9-20; X = bond, O, NH, S(O)k, k = 0-2; A = CO2H, PO3H2, PO2H2, SO3H, five membered nitrogen containing heterocyclyl, etc.; two R1 or R3 groups on adjacent carbon may be joined together to form a double bond; R2, R3, R4 = H, halo, OH, CO2H, C1-4 alkyl, alkoxy, alkylthio, aryl, etc.; R1-R4 = residing on the same carbon optionally joined together to form a carbonyl group, etc.; R9 = H, halo, OH, C1-4 alkoxy, alkylthio, C3-7 cycloalkyl, etc.); as well as the pharmaceutically acceptable salts and hydrates thereof. The compds. are useful for treating immune mediated diseases and conditions, such as bone marrow, organ and tissue transplant rejection. Pharmaceutical compns. and methods of use are included. Thus, preparation of (+/-)-2-amino-4-(4-(octylphenyl))butanol, O-phosphate was described in five steps starting from di-Et 2-acetamido-2-(2-(4-octylphenyl))ethyl)propanedioate.

L132 ANSWER 6 OF 29 HCAPLUS COPYRIGHT 2007 ACS on STN ACCESSION NUMBER: 2003:719253 HCAPLUS Full-text

DOCUMENT NUMBER: 139:245479

TITLE: Preparation of aminoalkylphosphonates and

related compounds as EDG receptor agonists

INVENTOR(S): Budhu, Richard J.; Doherty, George A.

; Hale, Jeffrey J.; Lynch,

Christopher L.; Mills, Sander G.;

Neway, William E., III Merck & Co., Inc., USA PCT Int. Appl., 90 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT ASSIGNEE(S):

SOURCE:

PATENT NO.					KIND DATE					APPL	ICAT	ION :	NO.		DA	TE
WO	2003	- 0739	86		A2		2003	0912				US59	47		20 02	
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2003 0227

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EE, HU, SK

JP 2005531506 20051020 JP 2003-572508 Т

> 2003 0227

US 2006089334 Α1 20060427 US 2004-505257

2004 0819

<--PRIORITY APPLN. INFO.: US 2002-360663P

2002

0301

WO 2003-US5947

2003 0227

OTHER SOURCE(S): MARPAT 139:245479

Entered STN: 14 Sep 2003

AX(CR1R2)mCH(NH2)(CR3R4)nArBC [A = CO2H, P(O)(OH)2, PH(O)(OH), SO3H, P(O)R5OH, 5membered N heterocycle; X = bond, O, NH, S, S, S(O), SO2; R1-R4 = H, halogen, OH, CO2H, (un) substituted alkyl, alkoxy, alkylthio, aryl; R1R2, R3R4 = 0; m = 1-4; n = 0-4; R5 = (un) substituted alkyl, aryl; Ar = Ph, naphthyl; C = (un) substituted alkyl, alkoxy, acyl, hydroxyalkyl, Ph, heterocyclic, bond; when C = bond, B = (un)substituted Ph, alkyl, alkenyl, alkynyl, OH, SH, acyl, CONH2, NH2; when C = Ph, heterocyclic, B = (un)substituted alkyl, alkoxy, acyl, CO, CH(OH), C6H4, heterocyclic; when C = alkyl, alkoxy, acyl, B = (un)substituted C6H4, heterocyclic] were prepared for use as EDG receptor antagonists useful for treating immune mediated diseases and conditions, such as bone marrow, organ and tissue transplant rejection (no data). Thus, 4-Me(CH2) 7C6H4CH2CH2C(NHAc)(CO2Et)2 was hydrolyzed and decarboxylated to 4-Me(CH2)7C6H4CH2CH(NH2)CO2H which was N-benzyloxycarbonylated, reduced to 4-Me(CH2)7C6H4CH2CH2CH(NHCbz)CH2OH, phosphorylated (MeCH)2NP(OCH2Ph)2, and deblocked to give 4- Me(CH2)7C6H4CH2CH2CH(NH2)CH2OP(O)(OH)2.

L132 ANSWER 7 OF 29 HCAPLUS COPYRIGHT 2007 ACS on STN ACCESSION NUMBER: 2003:591193 HCAPLUS Full-text

DOCUMENT NUMBER: 139:149520

TITLE: Preparation of aralkylpyrrolidines and

-azetidines as Edg receptor agonists

Bugianesi, Robert L.; Doherty, George INVENTOR(S): A.; Gentry, Amy; Hale, Jeffrey J.

; Lynch, Christopher L.; Mills, Sander

G.; Neway, William E., III

Merck & Co., Inc., USA PATENT ASSIGNEE(S): PCT Int. Appl., 112 pp. SOURCE:

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003062252	A1	20030731	WO 2003-US1196	2003 0115

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG,

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                                 20030731
                                          CA 2003-2472715
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                                                                     2003
                                                                     0115
     EP 1470137
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     JP 2005515259
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PRIORITY APPLN. INFO.:
                                             US 2002-350000P
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                                             WO 2003-US1196
                                                                     2003
                                                                     0115
OTHER SOURCE(S):
                   MARPAT 139:149520
     Entered STN: 01 Aug 2003
     Title compds. I [Ar = (un)substituted Ph, naphthyl; A = CO2H, P(O)(OH)2, P(O)OH, SO3H,
AΒ
     1H-tetrazol-5-yl; R1, R2 = H, halogen, OH, CO2H, (un) substituted alkyl; R3 = H,
     (un)substituted alkyl; m, n = 0, 1] were prepared for use as Edg receptor agonists,
     useful for treating immune mediated diseases and conditions, such as bone marrow, organ
     and tissue transplant rejection (no data). Thus, 3-pyrrolidinol was converted to di-Et
     3-hydroxypyrrolidin-3- ylphosphonate and treated with 4-nonylbenzaldehyde, followed by
     ester hydrolysis to give 1-(4-nonylbenzyl)-3-hydroxypyrrolidine-3- phosphonic acid.
                                THERE ARE 1 CITED REFERENCES AVAILABLE
REFERENCE COUNT:
                                FOR THIS RECORD. ALL CITATIONS AVAILABLE
                                IN THE RE FORMAT
L132 ANSWER 8 OF 29 HCAPLUS COPYRIGHT 2007 ACS on STN
                      2003:591190 HCAPLUS Full-text
ACCESSION NUMBER:
DOCUMENT NUMBER:
                         139:149756
                         Preparation of N-(benzyl)aminoalkylcarboxylate
TITLE:
                         s, phosphinates, phosphonates and tetrazoles
                         as EDG receptor agonists
                         Doherty, George A.; Li, Zhen
INVENTOR(S):
                         ; Hale, Jeffrey J.; Mills,
                         Sander G.
PATENT ASSIGNEE(S):
                         Merck & Co., Inc., USA
SOURCE:
                         PCT Int. Appl., 152 pp.
                         CODEN: PIXXD2
DOCUMENT TYPE:
                         Patent
LANGUAGE:
                         English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:
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DATE

KIND

PATENT NO.

APPLICATION NO.

DATE

	 WO 2003062248					_										
		_	48		A2		2003	0731	1	WO 2	003-	US10	59		2003 0114	
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WO	2003				A3		2006									
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JP	2005	5274	94		Т		2005	0915	•	JP 2	003-	5621	25		2003 0114	
FD	1575	964			A2		2005	0921			 	7021	1 ()			
DF	1373	J04			AL		2003	0,21	•			7021	10		2003 0114	
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										_					2004 070	
PRIORITY	(APP	LN.	INFO	. :						US 2	002-	3499	95P	•	2002 0118	
									,		 003-	US10	59	,	W 2003 0114	

OTHER SOURCE(S): MARPAT 139:149756

ED Entered STN: 01 Aug 2003

The present invention encompasses preparation of compds., A(CR1R2)nNHCHR3Ar{(R4)0-4}BC (Ar = Ph, naphthyl, etc.; A = CO2H, 1H-tetrazol-5-yl, PO3H2, PO2H2, SO3H, PO(R5)OH, R5 = C1-4 alkyl, hydroxyC1-4alkyl, Ph, COC1-3alkoxy, CH(OH)Ph, etc.; n = 2-4; R1, R2 = independently selected from H, halo, OH, CO2H, C1-6 alkyl, Ph, etc.; R3 = H, C1-4 alkyl, etc.; R4 = CO2H, C1-4 alkyl, sulfonylalkyl, alkoxy, alkoxycyclopropyl, aryl, aryloxy, etc.; C = C1-8 alkyl, C1-8 alkoxy, heterocyclyl, etc.; B = (un)substituted Ph, (un)substituted C5-16 alkyl, (un)substituted C5-16 alkynyl, etc.), as well as the pharmaceutically acceptable salts and hydrates thereof. The compds. are useful for treating immune mediated diseases and conditions, such as bone marrow, organ and tissue transplant rejection. Pharmaceutical compns. and methods of use are included. Thus, reaction of 3-aminopropylphosphonic acid with 4- (decyloxy)benzaldehyde in presence of Bu4NOH and sodium cyanoborohydride in MeOH for 1h at 50° gave title compound, N-((4-decyloxy)benzyl)-3-aminopropylphosphonic acid.

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L132 ANSWER 9 OF 29 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2003:590932 HCAPLUS Full-text

DOCUMENT NUMBER: 139:149413

TITLE: Selective S1P1/Edg1 receptor agonists
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INVENTOR(S):

Doherty, George A.; Forrest,
Michael J.; Hajdu, Richard;
Hale, Jeffrey J.; Li, Zhen;
Mandala, Suzanne M.; Mills,
Sander G.; Rosen, Hugh;
Scolnick, Edward M.

PATENT ASSIGNEE(S):
Merck & Co., Inc., USA
SOURCE:
PCT Int. Appl., 202 pp.
CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT	NO.	KIND	DATE	APPLICATION NO.	DATE -
WO 2003	_ 061567	A2	20030731	WO 2003-US1120	2003 0114
0000	064565	- 0	00001001	<	
WO 2003 W:	AE, AG, AL, CH, CN, CO, GB, GD, GE, KR, KZ, LC, MW, MX, MZ,	CR, CU GH, GN LK, LF NO, N2 TJ, TN	J, CZ, DE, 1, HR, HU, R, LS, LT, G, OM, PH, 1, TN, TR,	BA, BB, BG, BR, BY, BZ DK, DM, DZ, EC, EE, ES ID, IL, IN, IS, JP, KE LU, LV, MA, MD, MG, MK PL, PT, RO, RU, SC, SD TT, TZ, UA, UG, US, UZ	, FI, , KG, , MN, , SE,
RW:	GH, GM, KE, AZ, BY, KG, DE, DK, EE,	LS, MV KZ, MI ES, F1 SK, TF	MZ, SD, D, RU, TJ, E, FR, GB, R, BF, BJ,	SL, SZ, TZ, UG, ZM, ZW TM, AT, BE, BG, CH, CY GR, HU, IE, IT, LU, MC CF, CG, CI, CM, GA, GN	, CZ, , NL,
US 2004	058894	-			2003 0109
CA 2472	680	A1	20030731	< CA 2003-2472680	2003 0114
EP 1469	863	A2	20041027	< EP 2003-731917	
				<	2003 0114
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AU 2003	216054	В2	20070104	AU 2003-216054	2003 0114
US 2005	070506	A1	20050331	< US 2004-501176	2004 0712
ORITY APP	LN. INFO.:			< US 2002-349991P	P 2002 0118
				< US 2002-362566P	P 2002
				< US 2002-382933P	0307 P 2002

Page 12

0523 <--

WO 2003-US1120

2003 0114

Entered STN: 01 Aug 2003 ED

AΒ The present invention encompasses a method of treating an immunoregulatory abnormality in a mammalian patient in need of such treatment comprising administering to said patient a compound which is an agonist of the S1P1/Edg1 receptor in an amount effective for treating said immunoregulatory abnormality, wherein said compound possesses a selectivity for the S1P1/Edg1 receptor over the S1PR3/Edg3 receptor, said compound administered in an amount effective for treating said immunoregulatory abnormality. Thus, 4-HOC6H4CHO was treated with Me(CH2)7I to give 4-Me(CH2)7OC6H4CHO which was treated with H2N(CH2)3P(O)(OH)2 to give 4- Me(CH2)7OC6H4CH2NH(CH2)3P(O)(OH)2 which had an EC50 for S1P1 agonism of $1.5~\mathrm{nM}$ and for S1P3 agonism of $6.0~\mathrm{nM}$.

L132 ANSWER 10 OF 29 HCAPLUS COPYRIGHT 2007 ACS on STN 2002:171909 HCAPLUS Full-text ACCESSION NUMBER:

DOCUMENT NUMBER: 136:216887

TITLE: Preparation of phosphate derivatives as

immunosuppressants

Mandala, Suzanne; Bergstrom, James; INVENTOR(S):

Hajdu, Richard; Rosen, Hugh;

Parsons, William H.; Card, Deborah J.;

Maccoss, Malcolm

PATENT ASSIGNEE(S): Merck & Co., Inc., USA SOURCE: PCT Int. Appl., 59 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

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R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR

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JP 2004507552 T
                                 20040311 JP 2002-523910
                                                                     2001
                                                                     0828
     US 2002091105 A1 20020711 US 2001-942411
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                        B2 20020820
     US 6437165
                                             US 2000-229438P
PRIORITY APPLN. INFO.:
                                                                     2000
                                                                     0831
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                                             WO 2001-US26789
                                                                     2001
                                                                     0828
                                                <--
OTHER SOURCE(S):
                        MARPAT 136:216887
    Entered STN: 08 Mar 2002
     Immunoregulatory compds. [I; wherein: X = O, S, NR1, (CH2)1-2, optionally substituted
AΒ
     with 1-4 halo groups (R1 = H, (C1-C4)alkyl, (C1-C4)haloalkyl); R1a = H, OH, (C1-C4)haloalkyl);
     C4) alkyl, (C1- C4) alkyloxy, the alkyl and alkyloxy portions being optionally substituted
     with 1-3 halo groups; R1b = H, OH, (C1-C4) alkyl, (C1-C4) haloalkyl; R2 = H, (C1-C4)
     C4) alkyl, (C1-C4) haloalkyl; and R3 = H, OH, halo, (C1-C4) alkyloxy, (C1-
     C4)haloalkyloxy], as well as the pharmaceutically acceptable salts and hydrates
     thereof, are disclosed. Thus, a multistep preparation of 3-amino-3-hydroxymethyl-5-
     (4-octylphenyl)pentylphosphonic acid is described. The compds. are useful as
     immunosuppressants, particularly in the treatment of bone marrow and organ transplant
     rejection. Pharmaceutical compns. and methods of use are included.
REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE
                                FOR THIS RECORD. ALL CITATIONS AVAILABLE
                               IN THE RE FORMAT
L132 ANSWER 11 OF 29 HCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2001:12274 HCAPLUS Full-text
DOCUMENT NUMBER:
                         134:86272
TITLE:
                        Preparation of pyrimidine derivatives as
                         Src-family protein tyrosine kinase inhibitor
                         compounds
INVENTOR(S):
                         Hunt, Julianne A.; Mills, Sander G.;
                         Sinclair, Peter J.; Zaller, Dennis M.
PATENT ASSIGNEE(S):
                       Merck & Co., Inc., USA
                         PCT Int. Appl., 181 pp.
SOURCE:
                         CODEN: PIXXD2
DOCUMENT TYPE:
                         Patent
LANGUAGE:
                         English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:
     PATENT NO. KIND DATE APPLICATION NO.
                                                                    DATE
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                       A1 20010104 WO 2000-US17472
     WO 2001000214
                                                                     2000
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         RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE,
             CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL,
             PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE,
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Page 14

SN, TD, TG

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JP 2003503354				
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				0626
			<	

OTHER SOURCE(S): MARPAT 134:86272

ED Entered STN: 05 Jan 2001

AΒ What are claimed are pyrimidine compds. (shown as I), or their pharmaceutically acceptable salts, hydrates, solvates, crystal forms and individual diastereomers, and pharmaceutical compns. including the same and their use as inhibitors of tyrosine kinase enzymes and consequently their use in the prophylaxis and treatment of protein tyrosine kinase-associated disorders, such as immune diseases, hyperproliferative disorders and other diseases in which inappropriate protein kinase action is believed to play a role, such as cancer, angiogenesis, atherosclerosis, graft rejection, rheumatoid arthritis and psoriasis. In I, R1, R2 = independently H, halo, OH, SH, CN, NO2, alkyl, alkoxy, acyloxy, alkoxycarbonyloxy, carbamoyloxy, alkylthio, sulfinyl, sulfonyl, acyl, alkoxycarbonyl, carbamoyl, amino, acylamino, alkoxycarbonylamino, ureido, sulfamoyl, sulfonylamino, or R1 and R2 can join together to form a fused methylenedioxy ring or a fused 6-membered aromatic ring; terms such as 'alkyl' here and below are further defined in the claims. R3, R5 = independently H, C1-C6-alkyl unsubstituted or substituted with 1-3 substituents, aryl (Ph or naphthyl unsubstituted or substituted with 1-3 substituents), or R3 and R5 taken together can represent :0. R4 = H, C1-C6-alkyl, C1-C6-alkoxyl, or R4 and X can join together to form a 5- or 6membered ring with substituted methylene or ethylene. X1, X2, X3, X4 in -X1:X2-X3:X4are substituted CH or N where 0-2 of X1, X2, X3, X4 are N. X5 = N, CH. R7 = H, alkyl, alkoxy, amino. X = 0, S, SO, SO2, imino. Z = C:0, SO2, substituted P(:0) (OH) or a single bond. 44 Example prepns. are given, but no preparative method is claimed and no data relating to the usefulness of the compds. are given.

REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE

IN THE RE FORMAT

L132 ANSWER 12 OF 29 HCAPLUS COPYRIGHT 2007 ACS on STN ACCESSION NUMBER: 2001:12273 HCAPLUS Full-text DOCUMENT NUMBER: 134:86271

TITLE: Preparation of pyrimidine derivatives as

Src-family protein tyrosine kinase inhibitor

compounds

INVENTOR(S): Armstrong, Helen M.; Beresis, Richard; Goulet,

Joung L.; Holmes, Mark A.; Hong, Xingfang; Mills, Sander G.; Parsons, William H.; Sinclair, Peter J.; Steiner, Mark G.; Wong,

Frederick; Zaller, Dennis M.

PATENT ASSIGNEE(S): Merck & Co., Inc., USA SOURCE: PCT Int. Appl., 470 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION: DATENT NO

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AT	2539	15			T		2003	1115			< 2000-	9417	01		0626 2000
PRIORIT	Y APP	LN.	INFO	. :							< 1999-	1416	39P	:	0626 P 1999 0630
										WO :	< 2000-	US17	443	1	W 2000 0626
OTHER S	OURCE	(S):			MARI	PAT	134:	86271	1		<				

OTHER SOURCE(S): MARPAT 134:86271

Entered STN: 05 Jan 2001

What are claimed are pyrimidine compds. (shown as I), or their pharmaceutically acceptable salts, hydrates, solvates, crystal forms and individual diastereomers, and pharmaceutical compns. including the same and their use as inhibitors of tyrosine kinase enzymes and consequently their use in the prophylaxis and treatment of protein tyrosine kinase-associated disorders, such as immune diseases, hyperproliferative disorders and other diseases in which inappropriate protein kinase action is believed to play a role, such as cancer, angiogenesis, atherosclerosis, graft rejection, rheumatoid arthritis and psoriasis. In I, R1, R2 = independently H, halo, OH, SH, CN, NO2, alkyl, alkoxy, acyloxy, alkoxycarbonyloxy, carbamoyloxy, alkylthio, sulfinyl, sulfonyl, acyl, alkoxycarbonyl, carbamoyl, amino, acylamino, ureido, sulfamoyl, sulfonylamino, or R1 and R2 can join together to form a fused methylenedioxy ring or a

fused 6-membered aromatic ring; terms such as 'alkyl' here and below are further defined in the claims. R3, R5 = independently H, C1-C6-alkyl unsubstituted or substituted with 1-3 substituents, aryl, or R3 and R5 taken together can represent :0; R3 or R5 can represent a 2 or 3 C methylene bridge forming a ring of 5-8 atoms fused to the A ring. R4 = H, C1-C6-alkyl, C1-C6-alkoxyl. X1, X2, X3, X4 in -X1:X2-X3:X4- are substituted or unsubstituted CH or N where 0-2 of X1, X2, X3, X4 are N. X5, X6 = independently N, C, optionally substituted CH. A ring = Ph, naphthyl, pyridyl, pyrazinyl, pyrimidinyl, pyrrolyl, thienyl, oxazolyl, isoxazolyl, thiazolyl, pyrazolyl, triazolyl, tetrazolyl, furanyl, benzothienyl, benzofuranyl, indolyl, imidazolyl, benzimidazolyl, thiadiazolyl. R7, R8, R9, R10 = independently H, halo, OH, SH, CN, NO2, N3, N2+BF4-, alkyl, alkoxy, alkylthio, sulfinyl, sulfonyl, C1-C6-alkyl, C1-C6perfluoroalkyl, acyl, alkoxycarbonyl, carbamoyl, acyloxy, alkoxycarbonyloxy, carbamoyloxy, amino, acylamino, ureido, sulfamoyl, sulfonylamino, two of R7, R8, R9, and R10 when on adjacent carbons join together to form a methylenedioxy bridge. N = 0-2. More than 500 example prepns. are given, but no preparative method is claimed and no data relating to the usefulness of the compds. are given.

REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L132 ANSWER 13 OF 29 HCAPLUS COPYRIGHT 2007 ACS on STN ACCESSION NUMBER: 2000:900457 HCAPLUS Full-text

DOCUMENT NUMBER: 134:56576

TITLE: Preparation of piperidinylmethylcyclopentanes

as modulators of CCR-5 and/or CCR-3 chemokine

receptors

INVENTOR(S): Finke, Paul E.; Hilfiker, Kerry A.; Loebach,

Jennifer L.; Maccoss, Malcolm; Mills, Sander G.; Shen, Dong-ming; Oates, Bryan

PATENT ASSIGNEE(S): Merch & Co., Inc., USA SOURCE: PCT Int. Appl., 266 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT :	МО.	_	KIND DATE			APPLICATION NO.						DATE	
 WO 2000	_ 076514		A1		2000	1221			000- ⁻	US15	769		2000 0608
W: RW:	AE, AG CN, CR GH, GM LK, LR NO, NZ TR, TT KG, KZ GH, GM CH, CY PT, SE SN, TD	CU, HR, LS, PL, TZ, MD, KE, DE, BF,	CZ, HU, LT, PT, UA, RU, LS, DK,	DE, ID, LU, RO, UG, TJ, MW, ES,	DK, IL, LV, RU, US, TM MZ, FI,	DM, IN, MA, SD, UZ, SD, FR,	DZ, IS, MD, SE, VN, SL, GB,	BB, EE, JP, MG, SG, YU, SZ, GR,	BG, ES, KE, MK, SI, ZA, TZ,	FI, KG, MN, SK, ZW, UG, IT,	GB, KR, MW, SL, AM, ZW, LU,	GD, KZ, MX, TJ, AZ, AT, MC,	GE, LC, MZ, TM, BY, BE, NL,
US 6432		o.:	B1		2002	0813						:	2000 0608 P 1999 0611

OTHER SOURCE(S): MARPAT 134:56576

ED Entered STN: 22 Dec 2000

AB Title compds. I [X = alkylcycloalkylalkyl, alkenyl, alkynyl, alkyl-Y-alkyl, where Y = bond, O, SO2, NR10, NR10SO2, SO2NR10, S, and SO; R10 = H, (un)substituted alkyl,

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benzyl, alkylcycloalkyl; R1 = CO2H, NO2, tetrazolyl, hydroxyisoxazole, etc; R2 = H, OH; R3 = (un)substituted Ph and heterocycle; Z = (CR4R5)n where n = 1-4; R4 and R5 = independently selected from H, OH, F, (un)substituted alkyl, cycloalkyl, alkenyl, alkynyl, Ph, etc., or R4 and R5 may be joined to form a 3-8 membered (un)substituted saturated ring; R7 = H, OH, halo, (un)substituted alkyl; R8 = H, (un)substituted cycloalkyl, Ph, naphthyl, biphenyl, and heterocycle; W = (CH2)x and A = (CH2)y where x or y is an integer from 0-2 with the provision the sum of x and y = 2] were prepared for treatment of AIDS, inflammatory and immunoregulatory disorders, asthma, allergic rhinitis, dermatitis, conjunctivitis, atherosclerosis or rheumatoid arthritis (no data). Thus, compd II·HCl was prepared in 5 steps from (+)-trans-3-formyl-4-phenylcyclopentan-1-one. In particular, these compds. are useful as modulators of the chemokine receptors CCR-5 and/or CCR-3 (no data) with application to treatment of HIV.

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE

IN THE RE FORMAT

L132 ANSWER 14 OF 29 HCAPLUS COPYRIGHT 2007 ACS on STN ACCESSION NUMBER: 2000:900456 HCAPLUS Full-text

DOCUMENT NUMBER: 134:56575

TITLE: Preparation of piperidinylmethylcyclopentanes

as modulators of CCR-5 and/or CCR-3 chemokine

receptors

INVENTOR(S): Finke, Paul E.; Loebach, Jennifer L.; Maccoss,

Malcolm; Mills, Sander G. Merck & Co., Inc., USA PCT Int. Appl., 130 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT ASSIGNEE(S):

SOURCE:

P.	ATENT :	ΝΟ.			KIN	D	DATE			APPL	ICAT	ION	NO.		DA	TE
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		CN,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EE,	ES,	FΙ,	GB,	GD,	GE,	
		GH,	GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	KΕ,	ΚG,	KR,	KΖ,	LC,	
		LK,	LR,	LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	MΖ,	
		NO,	NΖ,	PL,	PT,	RO,	RU,	SD,	SE,	SG,	SI,	SK,	SL,	ТJ,	TM,	
		TR,	TT,	TZ,	UA,	UG,	US,	UΖ,	VN,	YU,	ZA,	ZW,	ΑM,	ΑZ,	BY,	
		KG,	KΖ,	MD,	RU,	ТJ,	TM									
	RW:	GH,	GM,	KΕ,	LS,	MW,	MZ,	SD,	SL,	SZ,	TZ,	UG,	ZW,	ΑT,	BE,	
		CH,	CY,	DE,	DK,	ES,	FΙ,	FR,	GB,	GR,	ΙE,	ΙT,	LU,	MC,	ΝL,	
		PT,	SE,	BF,	ВJ,	CF,	CG,	CI,	CM,	GΑ,	GN,	GW,	ML,	${ m MR}$,	ΝE,	
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PRIORI'	TY APP	LN.	INFO	.:						US 1	999-	1388	72P		P	
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OTHER SOURCE(S): MARPAT 134:56575

ED Entered STN: 22 Dec 2000

Title compds. I [X = (un)substituted alkyl-Y-alkyl where Y = CO, CO2, OCO, OCONR9, NR9CO2, NR9CONR10; R9 = H, (un)substituted alkyl, cycloalkyl, alkylcycloalkyl, alkenyl, alkynyl, benzyl or phenyl; R10 = H, (un)substituted alkyl, benzyl or phenyl; R9 and R10 may be joined together to form a 5-8 membered (un)substituted ring; R1 = CO2H, NO2, tetrazolyl, etc.; R2 = H, OH; R3 = (un)substituted Ph and heterocycle; Z = (CR4R5)n where n = 1-4; R4 and R5 = independently H, OH, F, (un)substituted alkyl, cycloalkyl, alkenyl, heterocycle, etc.; R4 and R5 may be joined together to form a 3-8 membered

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(un)substituted saturated ring; R7 = H, OH, halo, (un)substituted alkyl; R8 = H, (un)substituted Ph, naphthyl, biphenyl, and heterocycle; W = (CH2)x and A = (CH2)y where x or y is an integer from 0-2 with the provision the sum of x and y = 2] were prepared for treatment of AIDS, inflammatory and immunoregulatory disorders, asthma, allergic rhinitis, dermatitis, conjunctivitis, atherosclerosis or rheumatoid arthritis (no data). Thus, compd II·HCl was prepared in 8 steps from Et trans-3-hydroxymethyl-4-phenylcyclopentylacetate. In particular, these compds. are useful as modulators of the chemokine receptors CCR-5 and/or CCR-3 (no data) with application to treatment of HIV.

REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE

FOR THIS RECORD. ALL CITATIONS AVAILABLE

IN THE RE FORMAT

L132 ANSWER 15 OF 29 HCAPLUS COPYRIGHT 2007 ACS on STN ACCESSION NUMBER: 2000:900455 HCAPLUS Full-text

DOCUMENT NUMBER: 134:56574

TITLE: Preparation of aminopiperidinylmethylcyclopent

anes as modulators of CCR-5 and/or CCR-3

chemokine receptors

INVENTOR(S): Finke, Paul E.; Chapman, Kevin T.; Maccoss,

Malcolm; Mills, Sander G.; Oates,

Bryan

PATENT ASSIGNEE(S): Merck & Co., Inc., USA SOURCE: PCT Int. Appl., 223 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

	PATENT 1	ИО.			KIN	D -	DATE			APPL	ICAT	ION :	ΝΟ.		DA	ATE
	WO 2000	- 0765	12		A1		2000	1221		WO 2	000-	US15	755			000
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	W:			•			AU,	•		BB,	BG,			•		
				,			DK, IL,							,		
							LV,									
		NO,	NZ,	PL,	PT,	RO,	RU,	SD,	SE,	SG,	SI,	SK,	SL,	ТJ,	TM,	
		TR,	TT,	TZ,	UA,	UG,	US,	UΖ,	VN,	YU,	ZA,	ZW,	AM,	AZ,	BY,	
		KG,	KΖ,	MD,	RU,	ΤJ,	TM									
	RW:	GH,	GM,	KΕ,	LS,	MW,	MΖ,	SD,	SL,	SZ,	TZ,	UG,	ZW,	ΑT,	BE,	
		CH,	CY,	DE,	DK,	ES,	FΙ,	FR,	GB,	GR,	ΙE,	ΙΤ,	LU,	MC,	ΝL,	
		PT,	SE,	BF,	ВJ,	CF,	CG,	CI,	CM,	GΑ,	GN,	GW,	ML,	${ m MR}$,	ΝE,	
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															19	999

OTHER SOURCE(S): MARPAT 134:56574

ED Entered STN: 22 Dec 2000

Title compds. I [X = CONR9, NR9CO, OCONR9, NR9CO2, and NR9CONR10; R9 = H, alkyl, cycloalkyl, alkylcycloalkyl, benzyl, Ph, etc.; R10 = H, alkyl, benzyl, or (un)substituted phenyl; R9 and R10 may be joined together to form a 5-8 membered (un)substituted ring; Y = bond, CO, CO2, SO2NR9, alkyl, CONR9, C(S)NR9; Z = bond, NR9, O, alkyl; R1 = (un)substituted Ph, naphthyl, alkyl, cycloalkyl, heterocycle other than tetrazolyl, etc. with provision when Z = NR9, then R9 and R1 may be joined together to form a 5-8 membered (un)substituted cycloalkyl or heterocyclic ring; R2 = H, OH, or R2 and Z may be joined together to form a double bond; R3 = (un)substituted Ph or heterocycle; R7 = H, (un)substituted alkyl, OH, halo; R8 = alkyl, cycloalkyl, alkenyl, (un)substituted Ph, naphthyl, or heterocycle, etc.; W = (CH2)x and A = (CH2)y with

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proviso that sum of x and y = 2] were prepared for treatment of AIDS, inflammatory and immunoregulatory disorders, asthma, allergic rhinitis, dermatitis, conjunctivitis, atherosclerosis or rheumatoid arthritis (no data). Thus, compound II was prepared in 7 steps from 4-oxo-2-phenylcyclopentanoic acid. In particular, these compds. are useful as modulators of the chemokine receptors CCR-5 and/or CCR-3 (no data) with application to treatment of HIV.

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE

IN THE RE FORMAT

L132 ANSWER 16 OF 29 HCAPLUS COPYRIGHT 2007 ACS on STN ACCESSION NUMBER: 2000:900454 HCAPLUS Full-text

DOCUMENT NUMBER: 134:56573

TITLE: Preparation of piperidinylmethylcyclopentanes

as modulators of CCR-5 and/or CCR-3 chemokine

receptors

INVENTOR(S): Finke, Paul E.; Maccoss, Malcolm; Mills,

Sander G.; Oates, Bryan Merck & Co., Inc., USA

PCT Int. Appl., 277 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT ASSIGNEE(S):

SOURCE:

PATENT :	ио.			KIN	D -	DATE			APPL	ICAT	ION :	ИО.		DATE	Ξ
WO 2000	- 07651	.1		A1		2000	1221				US15	657		2000 0608	-
W: RW:	GH, LK, NO, TR, KG, GH, CH, PT,	CR, GM, LR, NZ, TT, KZ, GM, CY,	CU, HR, LS, PL, TZ, MD, KE, DE,	CZ, HU, LT, PT, UA, RU, LS, DK,	DE, ID, LU, RO, UG, TJ, MW, ES,	DK, IL, LV, RU, US, TM MZ, FI,	DM, IN, MA, SD, UZ, SD, FR,	DZ, IS, MD, SE, VN,	BB, EE, JP, MG, SG, YU, SZ, GR,	ES, KE, MK, SI, ZA, TZ, IE,	FI, KG, MN, SK, ZW, UG, IT,	GB, KR, MW, SL, AM,	GD, KZ, MX, TJ, AZ, AT, MC,	GE, LC, MZ, TM, BY, BE, NL,	
US 6538		·		В1		2003	0325							2000 0608 1999 0613	3

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OTHER SOURCE(S): MARPAT 134:56573

ED Entered STN: 22 Dec 2000

Title compds. I [X = (un)substituted alkenyl, alkynyl, alkyl-Q-alkyl, wherein Q = bond, O, SO2, NR10, NR10SO2, SO2NR10, S, SO and R10 = H, alkyl, benzyl, Ph, etc; Y = bond, CO, CO2, OCO, SO2, alkyl, COR9, NR9CO, CSNR9, and NR9CS, wherein R9 = H, alkyl, cycloalkyl, benzyl, (un)substituted Ph, etc.; Z = bond, NR9, O, alkyl; R1 = (un)substituted Ph, naphthyl, heterocycle, alkyl, etc., or when Z = NR9, then R9 and R1 may be joined together to form a (un)substituted 5-8 membered alkyl or heterocyclic ring; R2 = H, OH, or R2 and Z may be joined together to form a double bond; R3 = (un)substituted Ph or heterocycle; R7 = H, (un)substituted alkyl, OH, halo, Ph or R7 and R8 may be linked together through X to form a substituted 5-membered spirocycloalkyl or spiroheterocyclic derivative; R8 = H, cycloalkyl, Ph, naphthyl, biphenyl and (un)substituted heterocycle; W = (CH2)x and A = (CH2)y where x or y is an integer from 0-2 with the provision the sum of x and y = 2] were prepared for treatment of AIDS, inflammatory and immunoregulatory disorders, asthma, allergic rhinitis,

dermatitis, conjunctivitis, atherosclerosis or rheumatoid arthritis (no data). Thus, compound II was prepared in 7 steps from 4-oxo-2-phenylcyclopentanoic acid. In particular, these compds. are useful as modulators of the chemokine receptors CCR-5 and/or CCR-3 (no data) with application to treatment of HIV.

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE

IN THE RE FORMAT

L132 ANSWER 17 OF 29 HCAPLUS COPYRIGHT 2007 ACS on STN 2000:725459 HCAPLUS Full-text ACCESSION NUMBER:

DOCUMENT NUMBER: 133:296373

TITLE: Preparation of 3-phenyl-4-

(heterocyclylmethyl) pyrrolidine modulators of

chemokine receptor activity

INVENTOR(S): Caldwell, Charles; Chapman, Kevin; Hale,

Jeffrey; Kim, Dooseop; Lynch, Christopher;

Maccoss, Malcolm; Mills, Sander G.;

Willoughby, Christopher; Berk, Scott; Kim,

Ronald M.

PATENT ASSIGNEE(S): Merck and Co., Inc., USA SOURCE:

PCT Int. Appl., 202 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

P <i>I</i>	TENT	NO.			KINI	D -	DATE			APPL	ICAT	ION	NO.		DA	ATE
—− WC	2000	- 0594	98		A1		2000	1012		WO 2		US90	74)00 105
	W: RW:	CN, GH, LK, NZ, TT, KZ, GH, CY,	CR, GM, LR, PL, TZ, MD, GM, DE,	CU, HR, LS, PT, UA, RU, KE, DK,	CZ, HU, LT, RO, UG, TJ, LS, ES,	DE, ID, LU, RU, US, TM MW, FI,	DK, IL, LV, SD, UZ, SD, FR,	DM, IN, MA, SE, VN, SL, GB,	DZ, IS, MD, SG, YU, SZ, GR,	BB, EE, JP, MG, SI, ZA, TZ, IE, GN,	ES, KE, MK, SK, ZW, UG, IT,	FI, KG, MN, SL, AM,	GB, KR, MW, TJ, AZ, AT, MC,	GD, KZ, MX, TM, BY,	GE, LC, NO, TR, KG,	
US	6498	,			В1		2002	1224		US 2	000-	5430	19)00 104
PRIORIT	Y APP	LN.	INFO	. :						US 1	999-	1281	72P		P 19	99

OTHER SOURCE(S): MARPAT 133:296373

Entered STN: 13 Oct 2000

AΒ The title compds. (I) [wherein R1 = CO2H, NO2, tetrazolyl, hydroxyisoxazole, SO2NH(alkyl)R9, or PO3H2; R9 = H, (cyclo)alkyl, benzyl, or (un)substituted phenyl; R2 = (un) substituted piperidinyl, tetrahydropyridinyl, piperazinyl, or 1-oxa-8azaspiro[4.5]decyl; R3 = (un)substituted Ph or heterocyclyl; R4 = H or (un)substituted alkyl, (alkyl)cycloalkyl, alkenyl, alkynyl, Ph, alkylphenyl, naphthyl, biphenyl, heterocyclyl, cyclohexenyl, etc.; R5 and R6 = independently H or (un)substituted alkyl; or R4 and R5 may be joined together to form an (un) substituted C3-8 cycloalkyl ring; n = 1-3] were prepared as modulators of chemokine receptors, especially the chemokine receptors CCR-5 and/or CCR-3. For example, 2-(R)-((3-(R)-formyl)-4-(S)-3-(S)-g)fluorophenylpyrrolidinyl-1-yl)-3-cyclobutanepropionic acid benzyl ester (preparationgiven) was treated with Pd/C and dissolved in ClCH2CH2Cl. 4-[N-(pyrimid-2-yl)-N-(prop-

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10/501176 1- yl)amino]piperidine•HCl (4-step preparation given), NaBH(OAc)3, and TEA were added, followed by di-tert-butyldicarbonate, to give II. I showed binding activity to the CCR-5 or the CCR-3 receptor, generally with IC50 values of < 1 μM . The present invention is directed to compds. which inhibit the entry of human immunodeficiency virus (HIV) into target cells and are of value in the prevention and treatment of HIV infection and the resulting AIDS syndrome (no data). The invention is further directed to compds. which are useful in the prevention or treatment of certain inflammatory and immunoregulatory disorders, including asthma, allergic rhinitis, dermatitis, conjunctivitis, rheumatoid arthritis, and atherosclerosis (no data). REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT L132 ANSWER 18 OF 29 HCAPLUS COPYRIGHT 2007 ACS on STN ACCESSION NUMBER: 2000:725458 HCAPLUS Full-text DOCUMENT NUMBER: 133:296372 Preparation of 3-phenyl-4-TITLE: (heterocyclylmethyl) pyrrolidine modulators of chemokine receptor activity INVENTOR(S): Berk, Scott; Caldwell, Charles; Chapman, Kevin; Hale, Jeffrey; Lynch, Christopher; Maccoss, Malcolm; Mills, Sander G.; Willoughby, Christopher PATENT ASSIGNEE(S): Merck & Co., Inc., USA SOURCE: PCT Int. Appl., 200 pp. CODEN: PIXXD2 DOCUMENT TYPE: Patent LANGUAGE: English FAMILY ACC. NUM. COUNT: 1 PATENT INFORMATION: PATENT NO. KIND DATE APPLICATION NO. DATE WO 2000059497 A1 20001012 WO 2000-US9059 2000 0405 <--W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG US 6399619 B1 20020604 US 2000-542898 2000 0404 US 1999-128174P PRIORITY APPLN. INFO.: P 1999 0406 MARPAT 133:296372 The title compds. (I) [wherein R1 = CO2H, NO2, tetrazolyl, hydroxyisoxazole,

OTHER SOURCE(S):

ED Entered STN: 13 Oct 2000

SO2NH(alkyl)R9, SO2NHCO(alkyl)R9, or PO3H2; R9 = H, (cyclo)alkyl, benzyl, or (un) substituted phenyl; R2 = (un) substituted piperidinyl, tetrahydropyridinyl, or piperazinyl; R3 = (un)substituted Ph or heterocyclyl; R4 = H or (un)substituted alkyl, (alkyl)cycloalkyl, alkenyl, alkynyl, Ph, alkylphenyl, naphthyl, biphenyl, heterocyclyl, cyclohexenyl, etc.; R5 and R6 = independently H or (un)substituted alkyl; or R4 and R5 may be joined together to form an (un) substituted C3-8 cycloalkyl ring; n = 1-3] were

prepared as modulators of chemokine receptors, especially the chemokine receptors CCR-5and/or CCR-3. For example, EtNH2 and 1-tert-butoxycarbonyl-4-piperidone were reacted in the presence of DIEA and reduced with NaBH(OAc)3 to give 4-(N-ethylamino)-1-tertbutoxycarbonylpiperidine (97%). Addition of carbonyldiimidazole and 3,4difluorobenzylamine to the piperidine followed by deprotection with TFA afforded 4-(N-(N-(3,4-difluorobenzyl) carbamoyl)-N- ethylamino) piperidine TFA (45%). Coupling thedeprotected piperidine with the aldehyde 2-(R)-(3-(R)-formy1-4-(S)-phenylpyrrolidin-1-pyl)-2-(cyclohexyl)acetic acid 4-methoxybenzyl ester (preparation given) in the presence of DIEA followed by reduction with NaBH(OAc)3 gave II. I showed binding activity to the CCR-5 or the CCR-3 receptor, generally with IC50 values of < 1 $\mu M.\ The\ present$ invention is directed to compds. Which inhibit the entry of human immunodeficiency virus (HIV) into target cells and are of value in the prevention and treatment of HIV infection and the resulting AIDS syndrome (no data). The invention is further directed to compds. Which are useful in the prevention or treatment of certain inflammatory and immunoregulatory disorders, including asthma, allergic rhinitis, dermatitis,

conjunctivitis, rheumatoid arthritis, and atherosclerosis (no data).

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L132 ANSWER 19 OF 29 HCAPLUS COPYRIGHT 2007 ACS on STN 1999:635463 HCAPLUS Full-text ACCESSION NUMBER:

DOCUMENT NUMBER: 131:243191

TITLE: Spiro-substituted azacycles as modulators of

chemokine receptor activity

INVENTOR(S): Mills, Sander G.; MacCoss, Malcolm;

Springer, Martin S.

PATENT ASSIGNEE(S): Merck and Co., Inc., USA

U.S., 97 pp. SOURCE: CODEN: USXXAM

Patent

DOCUMENT TYPE: LANGUAGE: Enalish

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
US 5962462	A	19991005	US 1997-989947		
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					1212
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PRIORITY APPLN. INFO.:			US 1996-32735P	P	
					1996
					1213
			<		
			US 1996-33558P	Р	
			00 1330 000001	-	1996
					1220
			/		

MARPAT 131:243191 OTHER SOURCE(S):

Entered STN: 07 Oct 1999

AΒ The invention is directed to spiro-substituted azacycles which are useful as modulators of chemokine receptor activity. Specifically, I [R1 = H, (un)substituted alk(en/yn)yl; W = bond, (un)substituted alkylene; Q = (un)substituted NH, O, S, S(O), SO2; X = bond, (un) substituted alkylene, S, S(O), NHCO, OC(O), etc.; YZ = fused aryl or heteroaryl nucleus; m, n = 0 to 5; (m+n) = 1 to 5] were prepared. The compds. are useful as modulators of the chemokine receptors CCR-1, CCR-2, CCR-2A, CCR-2B, CCR-3, CCR-4, CCR-5, CXCR-3, and/or CXCR-4 (no data), and are thereby useful as antiinflammatory and immunomodulating agents. Use for the treatment of HIV infection and/or AIDS is claimed specifically. For instance, 1'-methylspiro[indoline-3,4'-piperidine] underwent a sequence of N-benzoyloxycarbonylation (71%), N'-demethylation (73%), reductive N'alkylation with a corresponding polyfunctional aldehyde, and removal of the benzoyloxycarbonyl protecting group, to give title compound II.

REFERENCE COUNT: THERE ARE 6 CITED REFERENCES AVAILABLE 6 FOR THIS RECORD. ALL CITATIONS AVAILABLE

IN THE RE FORMAT

L132 ANSWER 20 OF 29 HCAPLUS COPYRIGHT 2007 ACS on STN ACCESSION NUMBER: 1991:574297 HCAPLUS Full-text

DOCUMENT NUMBER: 115:174297

TITLE: FK-506 and cyclosporin A: selective inhibition of calcium ionophore-induced

polymorphonuclear leukocyte degranulation

AUTHOR(S): Forrest, Michael J.; Jewell, Marvin

E.; Koo, Gloria C.; Sigal, Nolan H.

CORPORATE SOURCE: Dep. Immunol. Res., Merck Sharp and

Dohme Res. Lab., Rahway, NJ, 07065, USA

SOURCE: Biochemical Pharmacology (1991),

42(6), 1221-8

CODEN: BCPCA6; ISSN: 0006-2952

DOCUMENT TYPE: Journal LANGUAGE: English ED Entered STN: 01 Nov 1991

This paper investigates the abilities of FK-506 and cyclosporin A (CsA) to inhibit AΒ human polymorphonuclear leukocyte (PMNL) degranulation. PMNLs, purified from human blood, were stimulated in vitro with A23187, ionomycin, the complement derived peptide C5a, formyl-methionylleucinylphenylalanine (PMLP) or phorbol myristate acetate (PMA). Degranulation was assessed by measuring the release of either lactoferrin or N-acetyl- β -D- glucosaminidase (NAG). Both FK-506 and CsA produced a concentration-related inhibition of degranulation induced by either A23187 or ionomycin but did not affect C5a-, FMLP- or PMA-induced degranulation. The IC50 values for inhibition of degranulation (approx. 0.7 nM for FK-506 and 33.7 nM for CsA) are very close to the published values for inhibition of human T-cell proliferation. Removal of calcium from the incubation medium with EGTA totally inhibited calcium ionophore-induced degranulation but had no effect against C5a-, FMLP- or PMA-induced degranulation. Preincubation of PMHLs with actinomycin D or cycloheximide did not affect either A23187- or PMA-induced degranulation. Non-immunosuppressive analogs of CsA were ineffective at inhibiting degranulation. Rapamycin, a macrolide structurally related to FK-506, did not inhibit degranulation but it did antagonize the inhibition produced by FK-506. Given the similar profiles of activity of FK-506 and CsA in neutrophils and T cells, the authors conclude that similar activation or signal transduction pathways may be present in both T cells and neutrophils. Because A23187-induced PMNL degranulation was not sensitive to either actinomycin D or cycloheximide, it is apparent that the signal transduction pathways ultimately control different cellular functions.

L132 ANSWER 21 OF 29 HCAPLUS COPYRIGHT 2007 ACS on STN ACCESSION NUMBER: 1991:61838 HCAPLUS Full-text

DOCUMENT NUMBER: 114:61838

TITLE: Process for synthesis of FK-506 C10-C18

intermediates

INVENTOR(S):
Jones, Todd K.; Mills, Sander G.;

Desmond, Richard

PATENT ASSIGNEE(S): Merck and Co., Inc., USA

SOURCE: U.S., 11 pp.
CODEN: USXXAM

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
 US 4940797	А	19900710	US 1989-327848	1989 0323
EP 389244	A1	19900926	< EP 1990-302981	1990

						0320
				<		
R: CH, DE, FR,	GB,	IT, LI, NL				
CA 2012885	A1	19900923	CA	1990-2012885		
						1990
						0322
				<		
JP 03014529	Α	19910123	JP	1990-72272		
						1990
						0323
				<		
PRIORITY APPLN. INFO.:			US	1989-327848	Α	
						1989
						0323
				<i></i>		

OTHER SOURCE(S): MARPAT 114:61838

ED Entered STN: 23 Feb 1991

AB The optically pure C10-C18 fragment of the immunosuppressant FK-506 was prepared by an improved process from I. (Me3CSiO)CH2CHMeCH2CH(OR)CH(BZO)CH(OR)CH2CHMeOCH2Ph (II; R = H) (preparation given) was converted to II where R = Me.

L132 ANSWER 22 OF 29 HCAPLUS COPYRIGHT 2007 ACS on STN ACCESSION NUMBER: 1991:164203 HCAPLUS Full-text

DOCUMENT NUMBER: 114:164203

TITLE: Preparation of substituted oxazolidinone as

C8-18 fragment of FK-506

INVENTOR(S): Jones, Todd K.; Mills, Sander G.;

Desmond, Richard

PATENT ASSIGNEE(S): Merch and Co., Inc., USA SOURCE: Eur. Pat. Appl., 16 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

	PA'	FENT NO.	KIND	DATE	APPLICATION NO.		DATE
		 398474	A2	19901122	EP 1990-302982		1990 0320
		398474			<		0320
		R: CH, DE, FR, 2012884	•		CA 1990-2012884		1990
	JP	03135969	A	19910610	< JP 1990-72273		0322
					<		1990 0323
		06062589 5155228	B A	19940817 19921013	US 1991-702441		1991
PRIO	RIT	Y APPLN. INFO.:			< US 1989-327849	A	0516
					<		1989 0323
					US 1990-559434	В1	1990
					<		0725

OTHER SOURCE(S): MARPAT 114:164203

ED Entered STN: 03 May 1991

AB Title compds. I (P, P1 = hydroxy protectant; R1, R2 = H, (substituted C1-4 alkyl, - PhCH2, Ph, with proviso that R2 \neq H) optically pure are prepared as intermediates for the immunosuppressant FK-506 or intermediates thereof. Title compound I (R1 = Ph; R2 = Me; P1 = 4-(MeO)C6H4CH2; P = PhCH2) was prepared from oxazolidone II.

L132 ANSWER 23 OF 29 HCAPLUS COPYRIGHT 2007 ACS on STN ACCESSION NUMBER: 1991:81436 HCAPLUS <u>Full-text</u>

DOCUMENT NUMBER: 114:81436

TITLE: Process for synthesis of FK-506 and

tricarbonyl intermediates

INVENTOR(S): Jones, Todd K.; Askin, David; Mills, Sander G.; Reamer, Robert A.; Desmond,

Richard; Volante, Ralph P.; Tschaen, David M.;

Shinkai, Ichiro

PATENT ASSIGNEE(S): Merck and Co., Inc., USA SOURCE: Eur. Pat. Appl., 78 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

Р

	PATENT NO.	KIND	DATE	APPLICAT	NO.	_	DATE
	EP 378318	A1	19900718	EP 1990-	-300143		1990
				<			0105
	R: CH, DE, FR,	GB, IT	, LI, NL				
	CA 2007490			CA 1990-	-2007490		
							1990
							0110
	TD 00000640	_	10000017	<	4.404		
	JP 02233643	A	19900917	JP 1990-	.4401		1990
							0111
				<			0111
	US 5446158	А	19950829	US 1990-	-596847		
							1990
							1012
				<			
PRIO	RITY APPLN. INFO.:			US 1989-	.2958 / /	А	1989
							0111
				<			0111
				US 1989-	-375091	А	
							1989
							0630
				<			

OTHER SOURCE(S): MARPAT 114:81436

ED Entered STN: 09 Mar 1991

Claimed is a process for synthesizing tricarbonyl compds. RCOCOCOX (I) [R = (substituted) C1-40 alkyl; X = NR1R2, OR1, etc.; R1, R2 = C1-4 alkyl, benzyl, Ph, which may be substituted with halo, C1-4 alkoxy]. The said process comprises the steps of: a) contacting aldehyde RCHO with hydroxyl-protected acetate enolate equivalent Z1OCH:C(OM)X [Z1 = C1-10 alkyl, C6-10 aryl, benzyl (which can be substituted by halo or C1-4 alkoxy), trihydrocarbosilyl; M = Li, Na, K, etc.]; b) deprotecting the 2-hydroxyl function of the resulting product to form RCH(OH)CH(OH)COX (II); c) treating II in an inert, anhydrous, non-hydroxylic solvent with both oxalyl chloride and DMSO under an inert atmospheric at -78° to 0° followed by Et3N for a sufficient time to effect formation of I. Also claimed are intermediates for FK-506, e.g., piperidine III (R =

H, C1-10 alkyl; Z2 = H, trihydrocarbosilyl). The total synthesis of FK-506, a known immunosuppressant, is described.

L132 ANSWER 24 OF 29 HCAPLUS COPYRIGHT 2007 ACS on STN ACCESSION NUMBER: 1990:235036 HCAPLUS Full-text

DOCUMENT NUMBER: 112:235036

TITLE: Chemistry of tricarbonyl hemiketals and application of Evans technology to the total

synthesis of the immunosuppressant

(-) - FK - 506

AUTHOR(S): Jones, Todd K.; Reamer, Robert A.; Desmond,

Richard; Mills, Sander G.

CORPORATE SOURCE: Merch Sharp and Dohme Res. Lab., Rahway,

NJ, 07065-0900, USA

SOURCE: Journal of the American Chemical Society (

1990), 112(8), 2998-3017

CODEN: JACSAT; ISSN: 0002-7863

DOCUMENT TYPE: Journal LANGUAGE: English

OTHER SOURCE(S): CASREACT 112:235036

ED Entered STN: 23 Jun 1990

AB Details of model studies probing the chemical of the tricarbonyl region of FK-506 (I) are presented, and their use in designing a successful route to I is outlined. Applications of asym. oxazolidinone alkylation-aldol methodol. to a convergent, highly flexible synthesis of the C(10)-C(18) fragment and to improvements in the preparation of the C(20)-C(34) segment are also discussed.

L132 ANSWER 25 OF 29 HCAPLUS COPYRIGHT 2007 ACS on STN ACCESSION NUMBER: 1990:235199 HCAPLUS <u>Full-text</u>

DOCUMENT NUMBER: 112:235199

TITLE: Process for synthesis of hydroxylactone as

intermediate for immunoregulant

FK-506

INVENTOR(S): Mills, Sander G.; Volante, Ralph P.;

Shinkai, Ichiro

PATENT ASSIGNEE(S): Merck and Co., Inc., USA

SOURCE: Eur. Pat. Appl., 8 pp. CODEN: EPXXDW

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

	PA'	TENT NO.		KIND	DATE	APF	PLICATION NO.	_	DATE
	EP	343723		A1	19891129	EP	1989-201262		1989
							<		0518
	US	R: CH, E 4940803		GB, IT A		US	1988-197551		1988
							<		0523
	JP	02025475		А	19900126	JP	1989-127978		1989 0523
							<		
PRIO	RIT	Y APPLN. IN	1FO.:			US	1988-197551	А	1988 0523
							<		

OTHER SOURCE(S): CASREACT 112:235199

ED Entered STN: 23 Jun 1990

AB Hydroxylactone I (R = H) (II) in optically pure form, useful as an intermediate in the synthesis of the C20-34 chain of the immunosuppressant FK-506 and useful as a precursor for producing an UV radiation absorber, is prepared. To a suspension of quinic acid lactone I (R = OH) in C1CH2CH2Cl was added thiocarbonyldiimidazole at reflux under N to give 74% thioester III which was refluxed with Bu3SnH and AIBN in xylene under N to give 43% II.

L132 ANSWER 26 OF 29 HCAPLUS COPYRIGHT 2007 ACS on STN ACCESSION NUMBER: 1990:234809 HCAPLUS Full-text

DOCUMENT NUMBER: 112:234809

TITLE: Process for synthesis of E-2-methyl-

lpha, eta-unsaturated aldehydes as

intermediates for the

immunosuppressant FK-506 and as UV

absorbers.

INVENTOR(S): Desmond, Richard; Mills, Sander G.;

Volante, Ralph P.; Shinkai, Ichiro

PATENT ASSIGNEE(S): Merck and Co., Inc., USA SOURCE: Eur. Pat. Appl., 15 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PA'	TENT NO.		KIND	DATE	API	PLICATION NO.		DATE
 EP	343709		A2	19891129	EP	1989-201213		1989
						<		0516
EP	343709 R: CH,		A3 , GB, 1	19901205 IT, LI, NL				
US	4914220		A	19900403	US	1989-316607		1989
								0227
						<		
JP	02025490		A	19900126	JP	1989-127977		
								1989
								0523
						<		
JP	06000793		В	19940105				
PRIORIT	Y APPLN.	INFO.:			US	1988-197549	Α	
								1988
								0523

OTHER SOURCE(S): CASREACT 112:234809; MARPAT 112:234809

ED Entered STN: 23 Jun 1990

AB The title compds. I (Z = triorganosilyl protecting group) are prepared from aldehydes II. I are also useful as UV absorbers (no data). Treatment of imine III with sec-BuLi, followed by reaction with aldehyde IV, treatment of the resulting product with CF3CO2H, and hydrolysis, gave 84% (E)-V.

L132 ANSWER 27 OF 29 BIOSIS COPYRIGHT (c) 2007 The Thomson

Corporation on STN

ACCESSION NUMBER: 2002:544668 BIOSIS Full-text

DOCUMENT NUMBER: PREV200200544668

TITLE: Phosphate derivatives as immunoregulatory

agents.

AUTHOR(S): Mandala, Suzanne [Inventor, Reprint author];

Bergstrom, James [Inventor]; Hajdu, Richard

[Inventor]; Rosen, Hugh [Inventor];

Parsons, William [Inventor]; Card, Deborah J.

[Inventor]; Maccoss, Malcolm [Inventor]; Kathleen,

Rupprecht [Inventor]

CORPORATE SOURCE: Scotch Plains, NJ, USA

ASSIGNEE: Merck and Co., Inc.

PATENT INFORMATION: US 6437165 20020820

SOURCE: Official Gazette of the United States Patent and

Trademark Office Patents, (Aug. 20, 2002)

Vol. 1261, No. 3. http://www.uspto.gov/web/menu/pat

data.html. e-file.

CODEN: OGUPE7. ISSN: 0098-1133.

DOCUMENT TYPE: Patent LANGUAGE: English

ENTRY DATE: Entered STN: 23 Oct 2002

Last Updated on STN: 23 Oct 2002

ED Entered STN: 23 Oct 2002

Last Updated on STN: 23 Oct 2002

AB Immunoregulatory compounds are disclosed of the formula: ##STR1## as well as the pharmaceutically acceptable salts and hydrates thereof, are disclosed. The compounds are useful for treating immune mediated diseases and conditions, such as bone marrow, organ and tissue transplant rejection. Pharmaceutical compositions and methods of use are included.

L132 ANSWER 28 OF 29 BIOSIS COPYRIGHT (c) 2007 The Thomson

Corporation on STN

ACCESSION NUMBER: 2002:505469 BIOSIS Full-text

DOCUMENT NUMBER: PREV200200505469

TITLE: Substituted 3-amino biaryl propionic acids as

potent VLA-4 antagonists.

AUTHOR(S): Kopka, Ihor E. [Reprint author]; Lin, Linus S.;

Mumford, Richard A.; Lanza, Thomas, Jr.; Magriotis,

Plato A.; Young, David; DeLaszlo, Stephen E.;

MacCoss, Malcolm; Mills, Sander G.; Van Riper, Gail; McCauley, Ermengilda; Lyons, Kathryn;

Vincent, Stella; Egger, Linda A.; Kidambi, Usha; Stearns, Ralph; Colletti, Adria; Teffera, Yohannes;

Tong, Sharon; Owens, Karen; Levorse, Dorothy;

Schmidt, John A.; Hagmann, William K.

CORPORATE SOURCE: Department of Medicinal Chemistry, Merck

Research Laboratories, RY 123-136, PO Box 2000,

Rahway, NJ, 07065, USA ihor_kopka@merck.com

SOURCE: Bioorganic and Medicinal Chemistry Letters, (

September, 2002) Vol. 12, No. 17, pp.

2415-2418. print.

CODEN: BMCLE8. ISSN: 0960-894X.

DOCUMENT TYPE: Article LANGUAGE: English

ENTRY DATE: Entered STN: 25 Sep 2002

Last Updated on STN: 25 Sep 2002

ED Entered STN: 25 Sep 2002

Last Updated on STN: 25 Sep 2002

AB A series of substituted N-(3,5-dichlorobenzenesulfonyl)-(L)-prolyl-

and (L)-azetidyl-beta-biaryl beta-alanine derivatives was prepared as selective and potent VLA-4 antagonists. The 2,6-dioxygenated biaryl substitution pattern is important for optimizing potency. Oral bioavailability was variable and may be a

result of binding to circulating plasma proteins.

L132 ANSWER 29 OF 29 BIOSIS COPYRIGHT (c) 2007 The Thomson

Corporation on STN

ACCESSION NUMBER: 1995:63645 BIOSIS <u>Full-text</u>

DOCUMENT NUMBER: PREV199598077945

TITLE: The Saccharomyces cerevisiae FKS1 (ETG1) gene

encodes an integral membrane protein which is a

subunit of 1,3-beta-D-glucan synthase.

AUTHOR(S): Douglas, Cameron M.; Foor, Forrest; Marrinan, Jean

A.; Morin, Nancy; Nielsen, Jennifer B.; Dahl, Arlene M.; Mazur, Paul; Baginsky, Walter; Li, Weili; El-Sherbeini, Mohamed; Clemas, Joseph A.;

Mandala, Suzanne M.; Frommer, Beth R.;

Kurtz, Myra B. [Reprint author]

CORPORATE SOURCE: Merck Res. Lab., PO Box 2000, Rahway, NJ

07065, USA

SOURCE: Proceedings of the National Academy of Sciences of

the United States of America, (1994) Vol.

91, No. 26, pp. 12907-12911. CODEN: PNASA6. ISSN: 0027-8424.

DOCUMENT TYPE: Article LANGUAGE: English

OTHER SOURCE: Genbank-U12893

ENTRY DATE: Entered STN: 8 Feb 1995

Last Updated on STN: 14 Mar 1995

ED Entered STN: 8 Feb 1995

Last Updated on STN: 14 Mar 1995

AΒ In Saccharomyces cerevisiae, mutations in FKS1 confer hypersensitivity to the immunosuppressants FK506 and cyclosporin A, while mutations in ETG1 confer resistance to the cell-wall-active echinocandins (inhibitors of 1,3-beta-D-glucan synthase) and, in some cases, concomitant hypersensitivity to the chitin synthase inhibitor nikkomycin Z. The FKS1 and ETG1 genes were cloned by complementation of these phenotypes and were found to be identical. Disruption of the gene results in (i) a pronounced slow-growth phenotype, (it) hypersensitivity to FK506 and cyclosporin A, (iii) a slight increase in sensitivity to echinocandin, and (iv) a significant reduction in 1,3-beta-D-glucan synthase activity in vitro. The nucleotide sequence encodes a 215-kDa polypeptide predicted to be an integral membrane protein with 16 transmembrane helices, consistent with previous observations that the etgl-1 mutation results in echinocandin-resistant glucan synthase activity associated with the nonextractable membrane fraction of the enzyme. These results suggest that FKS1 encodes a subunit of 1,3-beta-D-glucan synthase. The residual activity present in the disruption mutant, the nonessential nature of the gene, and results of Southern blot hybridization analysis point to the existence of a glucan synthase isozyme.

=>

=> d his 1133 (FILE 'HCAPLUS, MEDLINE, BIOSIS' ENTERED AT 12:49:36 ON 27 JUL L133 4 S (L106 OR L96) AND L101 => d que 1133 424 SEA FILE=REGISTRY ABB=ON PLU=ON (100-83-4/BI OR 101385-93-7/BI OR 101500-22-5/BI OR 103057-44-9/BI OR 103680-62-2/BI OR 103680-71-3/BI OR 10521-91-2/BI OR 106-41-2/BI OR 107-13-1/BI OR 108898-23-3/BI OR 110943-74-3/BI OR 111-70-6/BI OR 111-86-4/BI OR 1203-68-5/BI OR 1204-60-0/BI OR 121-32-4/BI OR 121-33-5/BI OR 121118-78-3/BI OR 123-08-0/BI OR 130592-02-8/BI OR 13138-33-5/BI OR 131888-48-7/BI OR 13214-66-9/BI OR 13477-53-7/BI OR 13631-21-5/BI OR 13880-74-5/BI OR 139-85-5/BI OR 143-16-8/BI OR 146936-34-7/BI OR 148547-19-7/BI OR 149104-89-2/BI OR 15174-69-3/BI OR 167279-18-7/BI OR 169806-13-7/BI OR 17012-21-4/BI OR 18278-34-7/BI OR 188846-99-3/BI OR 19463-48-0/BI OR 198959-37-4/BI OR 2052-07-5/BI OR 208108-76-3/BI OR 2113-57-7/BI OR 2233-18-3/BI OR 2314-36-5/BI OR 23703-22-2/BI OR 2374-05-2/BI OR 24076-33-3/BI OR 24083-12-3/BI OR 24083-13-4/BI OR 2420-16-8/BI OR 2439-54-5/BI OR 246847-91-6/BI OR 2495-35-4/BI OR 25006-17-1/BI OR 256488-46-7/BI OR 2973-76-4/BI OR 2973-77-5/BI OR 2973-78-6/BI OR 3111-37-3/BI OR 3132-99-8/BI OR 3261-62-9/BI OR 3300-51-4/BI OR 3453-33-6/BI OR 350-92-5/BI OR 35622-27-6/BI OR 36476-78-5/BI OR 3761-92-0/BI OR 38841-98-4/BI OR 3964-56-5/BI OR 401-95-6/BI OR 40499-83-0/BI OR 4282-40-0/BI OR 4282-42-2/BI OR 4282-44-4/BI OR 4815-96-7/BI OR 49763-67-9/BI OR 49763-69-1/BI OR 500191-05-9/BI OR 50262-46-9/BI OR 50773-56-3/BI OR 51572-88-4/BI OR 542-69-8/BI OR 54256-43-8/BI OR 5438-36-8/BI OR 54784-14-4/BI OR 54963-70-1/BI OR 556-18-3/BI OR 56-12-2/BI OR 56217-93-7/BI OR 56308-79-3/BI OR 56962-11-9/BI OR 569682-66-2/B I OR 569682-67-3/BI OR 569682-68-4/BI OR 569682-69-5/BI OR 569682-70-8/BI OR 569682-71-9/BI OR 569682-72-0/BI OR 569682-73-1/BI OR 569682-74-2/BI OR 569682-75-3/BI OR 569682-77-5/BI OR 569682-78-6/BI OR 569682-79-7/BI OR 569682-80-0/BI OR 569682-81-1/BI OR 569 L3 71 SEA FILE=REGISTRY ABB=ON PLU=ON L2 AND 1/NR AND 1/P AND 1/N T.4 154 SEA FILE=REGISTRY ABB=ON PLU=ON L2 AND 1/P 23 SEA FILE=REGISTRY ABB=ON PLU=ON L4 AND C4N/RF L6 L8 36 SEA FILE=REGISTRY ABB=ON PLU=ON L2 AND C4S/RF L9 67 SEA FILE=REGISTRY ABB=ON PLU=ON L2 AND C4N/RF L10 7 SEA FILE=REGISTRY ABB=ON PLU=ON L8 AND L9 L11 7 SEA FILE=REGISTRY ABB=ON PLU=ON L2 AND C2N2O/RF L12 1 SEA FILE=REGISTRY ABB=ON PLU=ON L10 AND L11 T.13 43 SEA FILE=REGISTRY ABB=ON PLU=ON L2 AND 3/F T.14 36 SEA FILE=REGISTRY ABB=ON PLU=ON L13 AND L8 L15 7 SEA FILE=REGISTRY ABB=ON PLU=ON L13 AND L10 L16 12 SEA FILE=REGISTRY ABB=ON PLU=ON L2 AND C3N/RF L17 6 SEA FILE=REGISTRY ABB=ON PLU=ON L16 AND L8 L18 1 SEA FILE=REGISTRY ABB=ON PLU=ON L16 AND L11 40 SEA FILE=REGISTRY ABB=ON PLU=ON L9 AND C6/RF AND L19

Page 31

9 SEA FILE=REGISTRY ABB=ON PLU=ON L19 AND 4/O 1 SEA FILE=REGISTRY ABB=ON PLU=ON L20 AND C22 H33 N

2/NR

L20

L21

		O4/MF
L22	2	SEA FILE=REGISTRY ABB=ON PLU=ON L9 AND 1/F
L23		SEA FILE-REGISTRY ABB-ON PLU-ON L16 AND 2/NR AND 2/O
112.5		SEA FILE-REGISTRI ADD-ON FLO-ON LIO AND 2/NR AND 2/O
L24	22	SEA FILE=REGISTRY ABB=ON PLU=ON L9 AND 2/NR AND
1124	22	2-3/O AND C6/RF
L25	1.1	SEA FILE=REGISTRY ABB=ON PLU=ON L24 AND 2/O
L26		SEA FILE-REGISTRY ABB=ON PLU=ON L25 AND 21/C
L27	4	SEA FILE=REGISTRY ABB=ON PLU=ON L24 AND 20/C AND 3/O
L28	6	SEA FILE=REGISTRY ABB=ON PLU=ON L2 AND 2/BR
L29		SEA FILE-REGISTRY ABB=ON PLU=ON L28 AND 2/NR
L30	6	SEA FILE=REGISTRY ABB=ON PLU=ON L9 AND 2/NR AND 5/O AND 1/P
L31	G	
L31		
L33		SEA FILE=REGISTRY ABB=ON PLU=ON L3 AND 4/O
L34		SEA FILE=REGISTRY ABB=ON PLU=ON L2 AND ?NAPHTH?/CNS
L35		SEA FILE=REGISTRY ABB=ON PLU=ON L34 AND 20-30/C
L37	44	SEA FILE=REGISTRY ABB=ON PLU=ON L2 AND ?BIPHENYL?/CNS
- 20	2.0	251 511 512 512 512 512 512 512 512 512
L38		SEA FILE=REGISTRY ABB=ON PLU=ON L37 AND 20-100/C
L41		SEA FILE=REGISTRY ABB=ON PLU=ON L3 AND C6/RF
L42		SEA FILE=REGISTRY ABB=ON PLU=ON L41 AND 12-50/C
L43	157	SEA FILE=REGISTRY ABB=ON PLU=ON L6 OR (L10 OR L11 OR
		L12 OR L13 OR L14 OR L15 OR L16 OR L17 OR L18) OR (L19
		OR L20 OR L21 OR L22 OR L23 OR L24 OR L25 OR L26 OR
		L27 OR L28 OR L29 OR L30 OR L31 OR L32 OR L33) OR L35
		OR L38
L44	199	SEA FILE=REGISTRY ABB=ON PLU=ON (L41 OR L42 OR L43)
L45	849	SEA FILE=HCAPLUS ABB=ON PLU=ON L44
L46		QUE ABB=ON PLU=ON PHARMAC?/SC,SX
L47	483	SEA FILE=HCAPLUS ABB=ON PLU=ON L45 AND L46
L48		QUE ABB=ON PLU=ON PY<2003 OR PRY<2003 OR AY<2003 OR
		MY<2003 OR REVIEW/DT
L49	270	MY<2003 OR REVIEW/DT SEA FILE=HCAPLUS ABB=ON PLU=ON L47 AND L48
L49 L50	270	
	270	SEA FILE=HCAPLUS ABB=ON PLU=ON L47 AND L48
		SEA FILE=HCAPLUS ABB=ON PLU=ON L47 AND L48 QUE ABB=ON PLU=ON IMMUNOSUPPRES? OR IMMUNOREG? OR IM
L50	7	SEA FILE=HCAPLUS ABB=ON PLU=ON L47 AND L48 QUE ABB=ON PLU=ON IMMUNOSUPPRES? OR IMMUNOREG? OR IMMUN?(A) (SUPPRESS? OR REG?)
L50 L51	7 19	SEA FILE=HCAPLUS ABB=ON PLU=ON L47 AND L48 QUE ABB=ON PLU=ON IMMUNOSUPPRES? OR IMMUNOREG? OR IM MUN?(A)(SUPPRESS? OR REG?) SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L50
L50 L51 L60	7 19	SEA FILE=HCAPLUS ABB=ON PLU=ON L47 AND L48 QUE ABB=ON PLU=ON IMMUNOSUPPRES? OR IMMUNOREG? OR IM MUN?(A)(SUPPRESS? OR REG?) SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L50 SEA FILE=HCAPLUS ABB=ON PLU=ON EDG1(A)S1P?
L50 L51 L60 L61	7 19 2	SEA FILE=HCAPLUS ABB=ON PLU=ON L47 AND L48 QUE ABB=ON PLU=ON IMMUNOSUPPRES? OR IMMUNOREG? OR IM MUN?(A)(SUPPRESS? OR REG?) SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L50 SEA FILE=HCAPLUS ABB=ON PLU=ON EDG1(A)S1P? SEA FILE=HCAPLUS ABB=ON PLU=ON L60 AND L49
L50 L51 L60 L61 L68	7 19 2	SEA FILE=HCAPLUS ABB=ON PLU=ON L47 AND L48 QUE ABB=ON PLU=ON IMMUNOSUPPRES? OR IMMUNOREG? OR IM MUN?(A) (SUPPRESS? OR REG?) SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L50 SEA FILE=HCAPLUS ABB=ON PLU=ON EDG1(A)S1P? SEA FILE=HCAPLUS ABB=ON PLU=ON L60 AND L49 QUE ABB=ON PLU=ON AUTOIMMUN?
L50 L51 L60 L61 L68 L69	7 19 2	SEA FILE=HCAPLUS ABB=ON PLU=ON L47 AND L48 QUE ABB=ON PLU=ON IMMUNOSUPPRES? OR IMMUNOREG? OR IM MUN?(A)(SUPPRESS? OR REG?) SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L50 SEA FILE=HCAPLUS ABB=ON PLU=ON EDG1(A)S1P? SEA FILE=HCAPLUS ABB=ON PLU=ON L60 AND L49 QUE ABB=ON PLU=ON AUTOIMMUN? SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L68
L50 L51 L60 L61 L68 L69 L70	7 19 2	SEA FILE=HCAPLUS ABB=ON PLU=ON L47 AND L48 QUE ABB=ON PLU=ON IMMUNOSUPPRES? OR IMMUNOREG? OR IM MUN?(A) (SUPPRESS? OR REG?) SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L50 SEA FILE=HCAPLUS ABB=ON PLU=ON EDG1(A)S1P? SEA FILE=HCAPLUS ABB=ON PLU=ON L60 AND L49 QUE ABB=ON PLU=ON AUTOIMMUN? SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L68 QUE ABB=ON PLU=ON "AUTOIMMUNE DISEASE"+PFT,OLD,NT/CT
L50 L51 L60 L61 L68 L69 L70 L71	7 19 2 21 32	SEA FILE=HCAPLUS ABB=ON PLU=ON L47 AND L48 QUE ABB=ON PLU=ON IMMUNOSUPPRES? OR IMMUNOREG? OR IM MUN?(A) (SUPPRESS? OR REG?) SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L50 SEA FILE=HCAPLUS ABB=ON PLU=ON EDG1(A)S1P? SEA FILE=HCAPLUS ABB=ON PLU=ON L60 AND L49 QUE ABB=ON PLU=ON AUTOIMMUN? SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L68 QUE ABB=ON PLU=ON "AUTOIMMUNE DISEASE"+PFT,OLD,NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L70
L50 L51 L60 L61 L68 L69 L70 L71	7 19 2 21 32	SEA FILE=HCAPLUS ABB=ON PLU=ON L47 AND L48 QUE ABB=ON PLU=ON IMMUNOSUPPRES? OR IMMUNOREG? OR IM MUN?(A) (SUPPRESS? OR REG?) SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L50 SEA FILE=HCAPLUS ABB=ON PLU=ON EDG1(A)S1P? SEA FILE=HCAPLUS ABB=ON PLU=ON L60 AND L49 QUE ABB=ON PLU=ON AUTOIMMUN? SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L68 QUE ABB=ON PLU=ON "AUTOIMMUNE DISEASE"+PFT,OLD,NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L70 QUE ABB=ON PLU=ON INFLAMMATION+PFT,OLD,NT/CT
L50 L51 L60 L61 L68 L69 L70 L71 L72 L73	7 19 2 21 32 41	SEA FILE=HCAPLUS ABB=ON PLU=ON L47 AND L48 QUE ABB=ON PLU=ON IMMUNOSUPPRES? OR IMMUNOREG? OR IM MUN?(A) (SUPPRESS? OR REG?) SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L50 SEA FILE=HCAPLUS ABB=ON PLU=ON EDG1(A)S1P? SEA FILE=HCAPLUS ABB=ON PLU=ON L60 AND L49 QUE ABB=ON PLU=ON AUTOIMMUN? SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L68 QUE ABB=ON PLU=ON "AUTOIMMUNE DISEASE"+PFT,OLD,NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L70 QUE ABB=ON PLU=ON INFLAMMATION+PFT,OLD,NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L72
L50 L51 L60 L61 L68 L69 L70 L71 L72 L73 L74	7 19 2 21 32 41	SEA FILE=HCAPLUS ABB=ON PLU=ON L47 AND L48 QUE ABB=ON PLU=ON IMMUNOSUPPRES? OR IMMUNOREG? OR IM MUN?(A) (SUPPRESS? OR REG?) SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L50 SEA FILE=HCAPLUS ABB=ON PLU=ON L60 AND L49 QUE ABB=ON PLU=ON AUTOIMMUN? SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L68 QUE ABB=ON PLU=ON "AUTOIMMUNE DISEASE"+PFT,OLD,NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L70 QUE ABB=ON PLU=ON INFLAMMATION+PFT,OLD,NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L72 QUE ABB=ON PLU=ON INFECTION+PFT,OLD,NT/CT
L50 L51 L60 L61 L68 L69 L70 L71 L72 L73 L74 L75	7 19 2 21 32 41	SEA FILE=HCAPLUS ABB=ON PLU=ON L47 AND L48 QUE ABB=ON PLU=ON IMMUNOSUPPRES? OR IMMUNOREG? OR IM MUN?(A) (SUPPRESS? OR REG?) SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L50 SEA FILE=HCAPLUS ABB=ON PLU=ON L60 AND L49 QUE ABB=ON PLU=ON AUTOIMMUN? SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L68 QUE ABB=ON PLU=ON "AUTOIMMUNE DISEASE"+PFT,OLD,NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L70 QUE ABB=ON PLU=ON INFLAMMATION+PFT,OLD,NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L72 QUE ABB=ON PLU=ON INFECTION+PFT,OLD,NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L72 QUE ABB=ON PLU=ON INFECTION+PFT,OLD,NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L72
L50 L51 L60 L61 L68 L69 L70 L71 L72 L73 L74 L75 L76	7 19 2 21 32 41	SEA FILE=HCAPLUS ABB=ON PLU=ON L47 AND L48 QUE ABB=ON PLU=ON IMMUNOSUPPRES? OR IMMUNOREG? OR IM MUN?(A) (SUPPRESS? OR REG?) SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L50 SEA FILE=HCAPLUS ABB=ON PLU=ON L60 AND L49 QUE ABB=ON PLU=ON AUTOIMMUN? SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L68 QUE ABB=ON PLU=ON "AUTOIMMUNE DISEASE"+PFT,OLD,NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L70 QUE ABB=ON PLU=ON INFLAMMATION+PFT,OLD,NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L72 QUE ABB=ON PLU=ON INFECTION+PFT,OLD,NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L72 QUE ABB=ON PLU=ON INFECTION+PFT,OLD,NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L74 QUE ABB=ON PLU=ON AIDS+PFT,OLD,NT/CT
L50 L51 L60 L61 L68 L69 L70 L71 L72 L73 L74 L75 L76 L77	7 19 2 21 32 41 15	SEA FILE=HCAPLUS ABB=ON PLU=ON L47 AND L48 QUE ABB=ON PLU=ON IMMUNOSUPPRES? OR IMMUNOREG? OR IM MUN?(A) (SUPPRESS? OR REG?) SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L50 SEA FILE=HCAPLUS ABB=ON PLU=ON L60 AND L49 QUE ABB=ON PLU=ON AUTOIMMUN? SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L68 QUE ABB=ON PLU=ON "AUTOIMMUNE DISEASE"+PFT,OLD,NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L70 QUE ABB=ON PLU=ON INFLAMMATION+PFT,OLD,NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L72 QUE ABB=ON PLU=ON INFECTION+PFT,OLD,NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L74 QUE ABB=ON PLU=ON INFECTION+PFT,OLD,NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L74 QUE ABB=ON PLU=ON AIDS+PFT,OLD,NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L74 QUE ABB=ON PLU=ON AIDS+PFT,OLD,NT/CT
L50 L51 L60 L61 L68 L69 L70 L71 L72 L73 L74 L75 L76 L77	7 19 2 21 32 41 15	SEA FILE=HCAPLUS ABB=ON PLU=ON L47 AND L48 QUE ABB=ON PLU=ON IMMUNOSUPPRES? OR IMMUNOREG? OR IM MUN?(A) (SUPPRESS? OR REG?) SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L50 SEA FILE=HCAPLUS ABB=ON PLU=ON EDG1(A)S1P? SEA FILE=HCAPLUS ABB=ON PLU=ON L60 AND L49 QUE ABB=ON PLU=ON AUTOIMMUN? SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L68 QUE ABB=ON PLU=ON "AUTOIMMUNE DISEASE"+PFT,OLD,NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L70 QUE ABB=ON PLU=ON INFLAMMATION+PFT,OLD,NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L72 QUE ABB=ON PLU=ON INFECTION+PFT,OLD,NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L74 QUE ABB=ON PLU=ON AIDS+PFT,OLD,NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L74 QUE ABB=ON PLU=ON AIDS+PFT,OLD,NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L76 QUE ABB=ON PLU=ON AIDS+PFT,OLD,NT/CT
L50 L51 L60 L61 L68 L69 L70 L71 L72 L73 L74 L75 L76 L77	7 19 2 21 32 41 15	SEA FILE=HCAPLUS ABB=ON PLU=ON L47 AND L48 QUE ABB=ON PLU=ON IMMUNOSUPPRES? OR IMMUNOREG? OR IM MUN?(A) (SUPPRESS? OR REG?) SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L50 SEA FILE=HCAPLUS ABB=ON PLU=ON EDG1(A)S1P? SEA FILE=HCAPLUS ABB=ON PLU=ON L60 AND L49 QUE ABB=ON PLU=ON AUTOIMMUN? SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L68 QUE ABB=ON PLU=ON "AUTOIMMUNE DISEASE"+PFT,OLD,NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L70 QUE ABB=ON PLU=ON INFLAMMATION+PFT,OLD,NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L72 QUE ABB=ON PLU=ON INFECTION+PFT,OLD,NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L74 QUE ABB=ON PLU=ON AIDS+PFT,OLD,NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L76 QUE ABB=ON PLU=ON AIDS+PFT,OLD,NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L76 QUE ABB=ON PLU=ON ASTHMA+PFT,OLD,NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L76 QUE ABB=ON PLU=ON ASTHMA+PFT,OLD,NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L78 QUE ABB=ON PLU=ON ASTHMA+PFT,OLD,NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L78 QUE ABB=ON PLU=ON ASTHMA+PFT,OLD,NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L78 QUE ABB=ON PLU=ON "RESPIRATORY SYSTEM, DISEASE"+PFT,
L50 L51 L60 L61 L68 L69 L70 L71 L72 L73 L74 L75 L76 L77	7 19 2 21 32 41 15 7	SEA FILE=HCAPLUS ABB=ON PLU=ON L47 AND L48 QUE ABB=ON PLU=ON IMMUNOSUPPRES? OR IMMUNOREG? OR IM MUN?(A) (SUPPRESS? OR REG?) SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L50 SEA FILE=HCAPLUS ABB=ON PLU=ON EDG1(A)S1P? SEA FILE=HCAPLUS ABB=ON PLU=ON L60 AND L49 QUE ABB=ON PLU=ON AUTOIMMUN? SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L68 QUE ABB=ON PLU=ON "AUTOIMMUNE DISEASE"+PFT,OLD,NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L70 QUE ABB=ON PLU=ON INFLAMMATION+PFT,OLD,NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L72 QUE ABB=ON PLU=ON INFECTION+PFT,OLD,NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L74 QUE ABB=ON PLU=ON AIDS+PFT,OLD,NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L76 QUE ABB=ON PLU=ON AIDS+PFT,OLD,NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L76 QUE ABB=ON PLU=ON ASTHMA+PFT,OLD,NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L76 QUE ABB=ON PLU=ON ASTHMA+PFT,OLD,NT/CT
L50 L51 L60 L61 L68 L69 L70 L71 L72 L73 L74 L75 L76 L77 L78 L79 L80	7 19 2 21 32 41 15 7	SEA FILE=HCAPLUS ABB=ON PLU=ON L47 AND L48 QUE ABB=ON PLU=ON IMMUNOSUPPRES? OR IMMUNOREG? OR IM MUN?(A) (SUPPRESS? OR REG?) SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L50 SEA FILE=HCAPLUS ABB=ON PLU=ON EDG1(A)S1P? SEA FILE=HCAPLUS ABB=ON PLU=ON L60 AND L49 QUE ABB=ON PLU=ON AUTOIMMUN? SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L68 QUE ABB=ON PLU=ON "AUTOIMMUNE DISEASE"+PFT,OLD,NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L70 QUE ABB=ON PLU=ON INFLAMMATION+PFT,OLD,NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L72 QUE ABB=ON PLU=ON INFECTION+PFT,OLD,NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L74 QUE ABB=ON PLU=ON AIDS+PFT,OLD,NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L76 QUE ABB=ON PLU=ON ASTHMA+PFT,OLD,NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L76 QUE ABB=ON PLU=ON ASTHMA+PFT,OLD,NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L78 QUE ABB=ON PLU=ON "RESPIRATORY SYSTEM, DISEASE"+PFT,OLD,NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L78 QUE ABB=ON PLU=ON "RESPIRATORY SYSTEM, DISEASE"+PFT,OLD,NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L78 QUE ABB=ON PLU=ON "RESPIRATORY SYSTEM, DISEASE"+PFT,OLD,NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L80
L50 L51 L60 L61 L68 L69 L70 L71 L72 L73 L74 L75 L76 L77 L78 L79 L80 L81 L82	7 19 2 21 32 41 15 7 16	SEA FILE=HCAPLUS ABB=ON PLU=ON L47 AND L48 QUE ABB=ON PLU=ON IMMUNOSUPPRES? OR IMMUNOREG? OR IM MUN?(A) (SUPPRESS? OR REG?) SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L50 SEA FILE=HCAPLUS ABB=ON PLU=ON EDG1(A)S1P? SEA FILE=HCAPLUS ABB=ON PLU=ON L60 AND L49 QUE ABB=ON PLU=ON AUTOIMMUN? SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L68 QUE ABB=ON PLU=ON "AUTOIMMUNE DISEASE"+PFT,OLD,NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L70 QUE ABB=ON PLU=ON INFLAMMATION+PFT,OLD,NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L72 QUE ABB=ON PLU=ON INFECTION+PFT,OLD,NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L74 QUE ABB=ON PLU=ON AIDS+PFT,OLD,NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L76 QUE ABB=ON PLU=ON ASTHMA+PFT,OLD,NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L78 QUE ABB=ON PLU=ON ASTHMA+PFT,OLD,NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L78 QUE ABB=ON PLU=ON "RESPIRATORY SYSTEM, DISEASE"+PFT,OLD,NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L80 QUE ABB=ON PLU=ON ARTHRITIS+PFT,OLD,NT/CT
L50 L51 L60 L61 L68 L69 L70 L71 L72 L73 L74 L75 L76 L77 L78 L79 L80 L81 L82 L83	7 19 2 21 32 41 15 7 16	SEA FILE=HCAPLUS ABB=ON PLU=ON L47 AND L48 QUE ABB=ON PLU=ON IMMUNOSUPPRES? OR IMMUNOREG? OR IM MUN?(A) (SUPPRESS? OR REG?) SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L50 SEA FILE=HCAPLUS ABB=ON PLU=ON EDG1(A)S1P? SEA FILE=HCAPLUS ABB=ON PLU=ON L60 AND L49 QUE ABB=ON PLU=ON AUTOIMMUN? SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L68 QUE ABB=ON PLU=ON "AUTOIMMUNE DISEASE"+PFT,OLD,NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L70 QUE ABB=ON PLU=ON INFLAMMATION+PFT,OLD,NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L72 QUE ABB=ON PLU=ON INFECTION+PFT,OLD,NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L74 QUE ABB=ON PLU=ON AIDS+PFT,OLD,NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L76 QUE ABB=ON PLU=ON ASTHMA+PFT,OLD,NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L78 QUE ABB=ON PLU=ON ASTHMA+PFT,OLD,NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L78 QUE ABB=ON PLU=ON "RESPIRATORY SYSTEM, DISEASE"+PFT,OLD,NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L80 QUE ABB=ON PLU=ON ARTHRITIS+PFT,OLD,NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L80 QUE ABB=ON PLU=ON ARTHRITIS+PFT,OLD,NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L80 QUE ABB=ON PLU=ON ARTHRITIS+PFT,OLD,NT/CT
L50 L51 L60 L61 L68 L69 L70 L71 L72 L73 L74 L75 L76 L77 L78 L79 L80 L81 L82 L83 L84	7 19 2 21 32 41 15 7 16	SEA FILE=HCAPLUS ABB=ON PLU=ON L47 AND L48 QUE ABB=ON PLU=ON IMMUNOSUPPRES? OR IMMUNOREG? OR IM MUN?(A) (SUPPRESS? OR REG?) SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L50 SEA FILE=HCAPLUS ABB=ON PLU=ON L60 AND L49 QUE ABB=ON PLU=ON AUTOIMMUN? SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L68 QUE ABB=ON PLU=ON "AUTOIMMUNE DISEASE"+PFT,OLD,NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L70 QUE ABB=ON PLU=ON INFLAMMATION+PFT,OLD,NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L72 QUE ABB=ON PLU=ON INFECTION+PFT,OLD,NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L74 QUE ABB=ON PLU=ON AIDS+PFT,OLD,NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L76 QUE ABB=ON PLU=ON ASTHMA+PFT,OLD,NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L76 QUE ABB=ON PLU=ON ASTHMA+PFT,OLD,NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L78 QUE ABB=ON PLU=ON "RESPIRATORY SYSTEM, DISEASE"+PFT,OLD,NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L80 QUE ABB=ON PLU=ON ARTHRITIS+PFT,OLD,NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L80 QUE ABB=ON PLU=ON ARTHRITIS+PFT,OLD,NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L82 QUE ABB=ON PLU=ON ARTHRITIS+PFT,OLD,NT/CT
L50 L51 L60 L61 L68 L69 L70 L71 L72 L73 L74 L75 L76 L77 L78 L79 L80 L81 L82 L83 L84 L85	7 19 2 21 32 41 15 7 16	SEA FILE=HCAPLUS ABB=ON PLU=ON L47 AND L48 QUE ABB=ON PLU=ON IMMUNOSUPPRES? OR IMMUNOREG? OR IM MUN?(A) (SUPPRESS? OR REG?) SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L50 SEA FILE=HCAPLUS ABB=ON PLU=ON EDG1(A)S1P? SEA FILE=HCAPLUS ABB=ON PLU=ON L60 AND L49 QUE ABB=ON PLU=ON AUTOIMMUN? SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L68 QUE ABB=ON PLU=ON "AUTOIMMUNE DISEASE"+PFT, OLD, NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L70 QUE ABB=ON PLU=ON INFLAMMATION+PFT, OLD, NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L72 QUE ABB=ON PLU=ON INFECTION+PFT, OLD, NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L74 QUE ABB=ON PLU=ON AIDS+PFT, OLD, NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L76 QUE ABB=ON PLU=ON ASTHMA+PFT, OLD, NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L78 QUE ABB=ON PLU=ON "RESPIRATORY SYSTEM, DISEASE"+PFT, OLD, NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L80 QUE ABB=ON PLU=ON ARTHRITIS+PFT, OLD, NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L80 QUE ABB=ON PLU=ON ARTHRITIS+PFT, OLD, NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L80 QUE ABB=ON PLU=ON "MUSCULAR DYSTROPHY"+PFT, OLD, NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L82 QUE ABB=ON PLU=ON "MUSCULAR DYSTROPHY"+PFT, OLD, NT/CT
L50 L51 L60 L61 L68 L69 L70 L71 L72 L73 L74 L75 L76 L77 L78 L79 L80 L81 L82 L83 L84 L85 L86	7 19 2 21 32 41 15 7 16 29 22	SEA FILE=HCAPLUS ABB=ON PLU=ON L47 AND L48 QUE ABB=ON PLU=ON IMMUNOSUPPRES? OR IMMUNOREG? OR IM MUN?(A) (SUPPRESS? OR REG?) SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L50 SEA FILE=HCAPLUS ABB=ON PLU=ON EDG1(A)S1P? SEA FILE=HCAPLUS ABB=ON PLU=ON L60 AND L49 QUE ABB=ON PLU=ON AUTOIMMUN? SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L68 QUE ABB=ON PLU=ON "AUTOIMMUNE DISEASE"+PFT,OLD,NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L70 QUE ABB=ON PLU=ON INFLAMMATION+PFT,OLD,NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L72 QUE ABB=ON PLU=ON INFECTION+PFT,OLD,NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L74 QUE ABB=ON PLU=ON AIDS+PFT,OLD,NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L76 QUE ABB=ON PLU=ON ASTHMA+PFT,OLD,NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L78 QUE ABB=ON PLU=ON ASTHMA+PFT,OLD,NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L80 QUE ABB=ON PLU=ON ARTHMITIS+PFT,OLD,NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L80 QUE ABB=ON PLU=ON ARTHMITIS+PFT,OLD,NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L80 QUE ABB=ON PLU=ON ARTHMITIS+PFT,OLD,NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L82 QUE ABB=ON PLU=ON "MUSCULAR DYSTROPHY"+PFT,OLD,NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L84 QUE ABB=ON PLU=ON "MUSCULAR DYSTROPHY"+PFT,OLD,NT/CT
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L50 L51 L60 L61 L68 L69 L70 L71 L72 L73 L74 L75 L76 L77 L78 L79 L80 L81 L82 L83 L84 L85 L86 L87 L88 L89	7 19 2 21 32 41 15 7 16 29 22 3 30 12	SEA FILE=HCAPLUS ABB=ON PLU=ON L47 AND L48 QUE ABB=ON PLU=ON IMMUNOSUPPRES? OR IMMUNOREG? OR IM MUN?(A) (SUPPRESS? OR REG?) SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L50 SEA FILE=HCAPLUS ABB=ON PLU=ON L60 AND L49 SEA FILE=HCAPLUS ABB=ON PLU=ON L60 AND L49 QUE ABB=ON PLU=ON AUTOIMMUN? SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L68 QUE ABB=ON PLU=ON "AUTOIMMUNE DISEASE"+PFT, OLD, NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L70 QUE ABB=ON PLU=ON INFLAMMATION+PFT, OLD, NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L72 QUE ABB=ON PLU=ON INFECTION+PFT, OLD, NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L74 QUE ABB=ON PLU=ON AIDS+PFT, OLD, NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L76 QUE ABB=ON PLU=ON ASTHMA+PFT, OLD, NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L76 QUE ABB=ON PLU=ON ASTHMA+PFT, OLD, NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L78 QUE ABB=ON PLU=ON "RESPIRATORY SYSTEM, DISEASE"+PFT, OLD, NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L80 QUE ABB=ON PLU=ON ARTHRITIS+PFT, OLD, NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L82 QUE ABB=ON PLU=ON "MUSCULAR DYSTROPHY"+PFT, OLD, NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L84 QUE ABB=ON PLU=ON "SKIN, DISEASE"+PFT, OLD, NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L86 QUE ABB=ON PLU=ON "SKIN, DISEASE"+PFT, OLD, NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L86 QUE ABB=ON PLU=ON "SKIN, DISEASE"+PFT, OLD, NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L86 QUE ABB=ON PLU=ON "SKIN, DISEASE"+PFT, OLD, NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L86 QUE ABB=ON PLU=ON DERMATITIS+PFT, OLD, NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L86 QUE ABB=ON PLU=ON DERMATITIS+PFT, OLD, NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L86
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L50 L51 L60 L61 L68 L69 L70 L71 L72 L73 L74 L75 L76 L77 L78 L79 L80 L81 L82 L83 L84 L85 L86 L87 L88 L89	7 19 2 21 32 41 15 7 16 29 22 3 30 12	SEA FILE=HCAPLUS ABB=ON PLU=ON L47 AND L48 QUE ABB=ON PLU=ON IMMUNOSUPPRES? OR IMMUNOREG? OR IM MUN?(A) (SUPPRESS? OR REG?) SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L50 SEA FILE=HCAPLUS ABB=ON PLU=ON L60 AND L49 SEA FILE=HCAPLUS ABB=ON PLU=ON L60 AND L49 QUE ABB=ON PLU=ON AUTOIMMUN? SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L68 QUE ABB=ON PLU=ON "AUTOIMMUNE DISEASE"+PFT, OLD, NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L70 QUE ABB=ON PLU=ON INFLAMMATION+PFT, OLD, NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L72 QUE ABB=ON PLU=ON INFECTION+PFT, OLD, NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L74 QUE ABB=ON PLU=ON AIDS+PFT, OLD, NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L76 QUE ABB=ON PLU=ON ASTHMA+PFT, OLD, NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L76 QUE ABB=ON PLU=ON ASTHMA+PFT, OLD, NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L78 QUE ABB=ON PLU=ON "RESPIRATORY SYSTEM, DISEASE"+PFT, OLD, NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L80 QUE ABB=ON PLU=ON ARTHRITIS+PFT, OLD, NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L82 QUE ABB=ON PLU=ON "MUSCULAR DYSTROPHY"+PFT, OLD, NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L84 QUE ABB=ON PLU=ON "SKIN, DISEASE"+PFT, OLD, NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L86 QUE ABB=ON PLU=ON "SKIN, DISEASE"+PFT, OLD, NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L86 QUE ABB=ON PLU=ON "SKIN, DISEASE"+PFT, OLD, NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L86 QUE ABB=ON PLU=ON "SKIN, DISEASE"+PFT, OLD, NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L86 QUE ABB=ON PLU=ON DERMATITIS+PFT, OLD, NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L86 QUE ABB=ON PLU=ON DERMATITIS+PFT, OLD, NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L86

L94		QUE ABB=ON PLU=ON NEOPLASM+PFT,OLD,NT/CT
L95	44	SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L94
L96	32	SEA FILE=HCAPLUS ABB=ON PLU=ON L95 AND L90
L97	1272	SEA FILE=HCAPLUS ABB=ON PLU=ON ("DOHERTY, GEORGE
		A."/AU OR "FORREST, MICHAEL J."/AU OR "HAJDU, RICHARD"/
		AU OR "HALE, JEFFREY J."/AU OR "LI, ZHEN"/AU OR
		"MANDALA, SUZANNE M."/AU OR "MILLS, SANDER G."/AU OR
		"ROSEN, HUGH"/AU OR "SCOLNICK, EDWARD M."/AU)
L98		QUE ABB=ON PLU=ON MERCK?/PA,CS,SO,CO
L99	714	SEA FILE=HCAPLUS ABB=ON PLU=ON L97 AND L48
L100	228	SEA FILE=HCAPLUS ABB=ON PLU=ON L99 AND L98
L101	26	SEA FILE=HCAPLUS ABB=ON PLU=ON L100 AND L50
L105	179	SEA FILE=REGISTRY ABB=ON PLU=ON L44 AND 18-70/C
L106	15	SEA FILE=HCAPLUS ABB=ON PLU=ON L105
L133	4	SEA (L106 OR L96) AND L101

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L133 ANSWER 1 OF 4 HCAPLUS COPYRIGHT 2007 ACS on STN ACCESSION NUMBER: 2004:566538 HCAPLUS Full-text
DOCUMENT NUMBER: 141:123484

TITLE: Preparation of 1-(amino)indanes and (1,2-dihydro-3-amino)-benzofurans,

benzothiophenes and indoles as EDG receptor

agonists

INVENTOR(S): Doherty, George A.; Hale, Jeffrey J.; Mills, Sander G.

PATENT ASSIGNEE(S): Merck & Co., Inc., USA SOURCE: PCT Int. Appl., 83 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

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OTHER SOURCE(S): MARPAT 141:123484

ED Entered STN: 15 Jul 2004

GΙ

Compds. of formula I [G = C(R4)2, O, S, SO, SO2; X = Ph, alkyl, etc.; Y = (C(R4))p; Z = alkyl, heterocyclo, etc.; A = CO2H, PO3H2, SO3H, tetrazolyl, etc.; each R1 = H, halo, OH, alkyl, alkoxy; R2 = H, halo, OH, alkyl, alkoxy; R3 =H, alkyl; R2R3 = (substituted) alkylene; R4 = H, alkyl; R5 = halo, alkyl, alkoxy; n = 0-1; p = 1-3] are prepared as EDG receptor agonists. The compds. are useful for treating immune mediated diseases and conditions, such as bone marrow, organ and tissue transplant rejection. Pharmaceutical compns. and methods of use are included. Thus, II was prepared from azetidine-3-carboxylic acid and the prepared indanone derivative. The prepared compds. had > 100-fold selectivity of EDG1 over EDG3.

IT 350-92-5

RL: RCT (Reactant); RACT (Reactant or reagent) (preparation of aminoindanes as immunosuppressants)

RN 350-92-5 HCAPLUS

CN 2-Propanone, 1,1,1-trifluoro-3-phenyl- (CA INDEX NAME)

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IC
     ICM A61K
     25-23 (Benzene, Its Derivatives, and Condensed Benzenoid
     Compounds)
     Section cross-reference(s): 1, 63
     aminoindane prepn EDG receptor agonist; indane amino prepn EDG
ST
     receptor agonist; immunosuppressant aminoindane prepn;
     benzofuran amino prepn EDG receptor agonist; benzothiophene amino
     prepn EDG receptor agonist; indole amino prepn EDG receptor
     agonist
ТТ
     Hepatitis
        (B; preparation of aminoindanes as immunosuppressants)
ΤТ
     Inflammation
        (Crohn's disease; preparation of aminoindanes as
        immunosuppressants)
ΙT
     Intestine, disease
        (Crohn's; preparation of aminoindanes as immunosuppressants
TT
     Kidney, disease
        (Goodpasture's syndrome; preparation of aminoindanes as
        immunosuppressants)
ΙT
     Eye, disease
     Graves' disease
        (Graves' ophthalmopathy; preparation of aminoindanes as
        immunosuppressants)
ΙT
     Nervous system, disease
        (Guillain-Barre syndrome; preparation of aminoindanes as
        immunosuppressants)
ΙT
     Ear, disease
        (Meniere's; preparation of aminoindanes as
        immunosuppressants)
ΙT
     Skin, neoplasm
        (Sezary syndrome; preparation of aminoindanes as
        immunosuppressants)
ΙT
     Skin, neoplasm
        (T-cell lymphoma; preparation of aminoindanes as
        immunosuppressants)
ΙT
     Disease, animal
        (Vogt-Koyanagi-Harada's syndrome; preparation of aminoindanes as
        immunosuppressants)
     Granulomatous disease
TТ
        (Wegener's granulomatosis; preparation of aminoindanes as
        immunosuppressants)
ΙT
     Lung, disease
        (acute injury; preparation of aminoindanes as
        immunosuppressants)
ΙT
     Injury
        (acute pulmonary; preparation of aminoindanes as
        immunosuppressants)
IT
     Respiratory distress syndrome
        (adult; preparation of aminoindanes as immunosuppressants)
ΙT
     Allergy
        (allergic asthma; preparation of aminoindanes as
        immunosuppressants)
IΤ
     Allergy
     Eye, disease
       Inflammation
        (allergic conjunctivitis; preparation of aminoindanes as
        immunosuppressants)
TT
     Asthma
        (allergic; preparation of aminoindanes as immunosuppressants
        )
ΙT
     Jaw
        (alveolar bone; preparation of aminoindanes as
        immunosuppressants)
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ΙT
     Edema
        (angioneurotic; preparation of aminoindanes as
        immunosuppressants)
ΙT
     Erythropoiesis
        (aplasia; preparation of aminoindanes as immunosuppressants
TT
     Anemia (disease)
        (aplastic; preparation of aminoindanes as immunosuppressants
        )
ΙT
     Alopecia
        (areata; preparation of aminoindanes as immunosuppressants
        )
TT
     Dermatitis
        (atopic; preparation of aminoindanes as immunosuppressants
        )
     Anemia (disease)
ΙT
       Autoimmune disease
        (autoimmune hemolytic anemia; preparation of aminoindanes
        as immunosuppressants)
ΤТ
     Autoimmune disease
       Inflammation
     Thyroid gland, disease
        (autoimmune thyroiditis; preparation of aminoindanes as
        immunosuppressants)
ΙT
     Hepatitis
        (autoimmune; preparation of aminoindanes as
        immunosuppressants)
TT
     Infection
        (bacterial; preparation of aminoindanes as
        immunosuppressants)
ΙT
     Cirrhosis
        (biliary; preparation of aminoindanes as immunosuppressants
        )
ΙT
     Bronchi, disease
        (bronchiectasis; preparation of aminoindanes as
        immunosuppressants)
ΙT
     Bronchi, disease
       Inflammation
        (bronchiolitis; preparation of aminoindanes as
        immunosuppressants)
ΙT
     Bronchi, disease
       Inflammation
        (bronchitis; preparation of aminoindanes as
        immunosuppressants)
ΙT
     3kin, disease
        (bullous pemphigoid; preparation of aminoindanes as
        immunosuppressants)
     Drug delivery systems
ΙT
        (capsules, soft; preparation of aminoindanes as
        immunosuppressants)
TT
     Drug delivery systems
        (capsules; preparation of aminoindanes as immunosuppressants
        )
ΙT
     Lung, disease
        (chronic obstructive pulmonary disease; preparation of aminoindanes
        as immunosuppressants)
ΙT
     Inflammation
        (chronic; preparation of aminoindanes as immunosuppressants
        )
ΙT
     Dermatitis
        (contact; preparation of aminoindanes as immunosuppressants
        )
ΙT
     Lymphoma
        (cutaneous T-cell; preparation of aminoindanes as
        immunosuppressants)
     Kidney, disease
TT
        (diabetic nephropathy; preparation of aminoindanes as
```

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immunosuppressants)
ΙT
    Connective tissue, disease
       Inflammation
        (eosinophilic fasciitis; preparation of aminoindanes as
        immunosuppressants)
TT
     Granuloma
        (eosinophilic; preparation of aminoindanes as
        immunosuppressants)
ΙT
     Skin, disease
        (epidermolysis bullosa; preparation of aminoindanes as
        immunosuppressants)
IT
     Autoimmune disease
        (exptl. autoimmune encephalomyelitis; preparation of
        aminoindanes as immunosuppressants)
TТ
     Encephalomyelitis
        (exptl. autoimmune; preparation of aminoindanes as
        immunosuppressants)
ΙT
     Kidney, disease
        (failure; preparation of aminoindanes as immunosuppressants
IT
     Lung, disease
        (fibrosis; preparation of aminoindanes as immunosuppressants
ΙT
     Ulcer
        (gastric; preparation of aminoindanes as immunosuppressants
ΙT
     Digestive tract, disease
       Inflammation
        (gastroenteritis; preparation of aminoindanes as
        immunosuppressants)
ΙT
     Ginqiva, disease
       Inflammation
        (gingivitis; preparation of aminoindanes as
        immunosuppressants)
TT
     Inflammation
     Kidney, disease
        (glomerulonephritis; preparation of aminoindanes as
        immunosuppressants)
ΙT
     Transplant and Transplantation
        (graft-vs.-host reaction; preparation of aminoindanes as
        immunosuppressants)
ΙT
     Kidney, disease
        (hemolytic-uremic syndrome; preparation of aminoindanes as
        immunosuppressants)
ΙT
     Infection
        (hepatitis B; preparation of aminoindanes as
        immunosuppressants)
     Eye, disease
ΙT
       Infection
       Inflammation
        (herpetic keratitis; preparation of aminoindanes as
        immunosuppressants)
ΙT
     Skin, disease
        (hyperproliferation; preparation of aminoindanes as
        immunosuppressants)
ΙT
     Skin, disease
        (ichthyosis; preparation of aminoindanes as
        immunosuppressants)
TT
     Purpura (disease)
        (idiopathic thrombocytopenic; preparation of aminoindanes as
        immunosuppressants)
     Intestine, disease
IT
        (inflammatory; preparation of aminoindanes as
        immunosuppressants)
ΙT
     Drug delivery systems
        (injections; preparation of aminoindanes as
        immunosuppressants)
```

```
ΤТ
     Reperfusion
        (injury; preparation of aminoindanes as immunosuppressants
        )
IT
     Autoimmune disease
        (insulin-dependent diabetes mellitus; preparation of aminoindanes as
        immunosuppressants)
TТ
     Diabetes mellitus
        (insulin-dependent; preparation of aminoindanes as
        immunosuppressants)
ΙT
     Inflammation
     Kidney, disease
        (interstitial nephritis; preparation of aminoindanes as
        immunosuppressants)
     Pneumonia
IT
        (interstitial; preparation of aminoindanes as
        immunosuppressants)
ΙT
     Eye, disease
       Inflammation
        (keratitis; preparation of aminoindanes as
        immunosuppressants)
     Eye, disease
ΙT
       Inflammation
        (keratoconjunctivitis; preparation of aminoindanes as
        immunosuppressants)
ΙT
     Skin, disease
        (leukoderma; preparation of aminoindanes as
        immunosuppressants)
TT
     Skin, disease
        (lichen planus; preparation of aminoindanes as
        immunosuppressants)
ΙT
     Necrosis
        (liver; preparation of aminoindanes as immunesuppressants)
ΙT
     Eve, disease
        (macula, senile degeneration; preparation of aminoindanes as
        immunosuppressants)
TT
     Alopecia
        (male pattern; preparation of aminoindanes as
        immunosuppressants)
ΙT
     Anemia (disease)
        (megaloblastic anemia; preparation of aminoindanes as
        immunosuppressants)
IT
     Carcinoma
        (metastasis; preparation of aminoindanes as
        immunosuppressants)
ΙT
     Headache
        (migraine; preparation of aminoindanes as immunosuppressants
ΙT
     Erythema
        (multiforme; preparation of aminoindanes as
        immunosuppressants)
TT
     Liver, disease
        (necrosis; preparation of aminoindanes as immunosuppressants
ΙT
     Inflammation
     Nerve, disease
        (neuritis; preparation of aminoindanes as immunosuppressants
        )
     Respiratory distress syndrome
TТ
        (newborn; preparation of aminoindanes as immunosuppressants
        )
ΙT
     Hepatitis
        (non-A, non-B; preparation of aminoindanes as
        immunosuppressants)
IT
     Diabetes mellitus
        (non-insulin-dependent; preparation of aminoindanes as
        immunosuppressants)
ΙT
     Respiratory system, disease
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(obstructive; preparation of aminoindanes as
        immunosuppressants)
ΙT
     Inflammation
     Pancreas, disease
        (pancreatitis; preparation of aminoindanes as
        immunosuppressants)
ΙT
     Skin, disease
        (pemphigus; preparation of aminoindanes as
        immunosuppressants)
ΙT
     Artery, disease
       Inflammation
        (periarteritis nodosa; preparation of aminoindanes as
        immunosuppressants)
ΙT
     Inflammation
     Periodontium, disease
        (periodontitis; preparation of aminoindanes as
        immunosuppressants)
ΙT
     Anemia (disease)
        (pernicious anemia; preparation of aminoindanes as
        immunosuppressants)
ΙT
     Allergy
        (photoallergic contact dermatitis; preparation of aminoindanes as
        immunosuppressants)
ΙT
     Dermatitis
        (photoallergic contact; preparation of aminoindanes as
        immunosuppressants)
ΙT
     Myositis
        (polymyositis; preparation of aminoindanes as
        immunosuppressants)
ΙT
     Immunosuppressants
        (preparation of aminoindanes and amino-benzofurans, benzothiophenes
        and indoles as immunosuppressants)
ΙT
     AIDS (disease)
       Acne
     Addison's disease
     Aging, animal
     Agranulocytosis
     Allergy
       Alopecia
     Arteriosclerosis
       Asthma
     Atherosclerosis
       Autoimmune disease
       Behoet's syndrome
     Burn
     Cataract
     Celiac disease
     Cirrhosis
       Cough
       Dermatitis
       Dermatomyositis
       Eczema
      Emphysema
     Eosinophilia
       Erythema
     Gingiva, disease
     Graves' disease
     {\tt Hyperthyroidism}
     Hypoxia
     Immune disease
       Lung, neoplasm
       Lupus erythematosus
     Lymph node, disease
       Lymphocytic leukemia
       Lymphoma
       Mastocytoma
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Multiple sclerosis

```
Muscular dystrophy
     Myasthenia gravis
     Myositis
     Necrosis
       Neoplasm
     Obesity
     Osteoporosis
     Periodontium, disease
       Pheumonia
       Psoriasis
       Respiratory system, disease
       Rheumatic fever
       Rheumatoid arthritis
       Sarcoidosis
       Seborrhea
       Sepsis
     Shock (circulatory collapse)
       Sjogren syndrome
     Thrombosis
       Transformation, neoplastic
     Transplant rejection
     Ulcer
       Orticaria
        (preparation of aminoindanes as immunosuppressants)
     Biliary tract, disease
ΙT
        (primary biliary cirrhosis; preparation of aminoindanes as
        immunosuppressants)
TT
     Inflammation
     Intestine, disease
        (pseudomembranous enterocolitis; preparation of aminoindanes as
        immunosuppressants)
ΙT
        (pulmonary; preparation of aminoindanes as
        immunosuppressants)
TT
     Skin, disease
        (pyoderma; preparation of aminoindanes as immunosuppressants
        )
ΙT
     Injury
        (reperfusion; preparation of aminoindanes as
        immunosuppressants)
ΙT
     Eye, disease
       Inflammation
        (retinitis pigmentosa; preparation of aminoindanes as
        immunosuppressants)
ТТ
     Inflammation
      Nose, disease
        (rhinitis; preparation of aminoindanes as immunosuppressants
ΙT
     Connective tissue, disease
        (scleroderma; preparation of aminoindanes as
        immunosuppressants)
     Biliary tract, disease
TT
       Inflammation
        (sclerosing cholangitis; preparation of aminoindanes as
        immunosuppressants)
ΙT
     Mental and behavioral disorders
        (senile psychosis; preparation of aminoindanes as
        immunosuppressants)
     Shock (circulatory collapse)
TT
        (septic; preparation of aminoindanes as immunosuppressants
     Disease, animal
IT
        (siderosis; preparation of aminoindanes as
        immunosuppressants)
ΙT
     Drug delivery systems
        (suspensions; preparation of aminoindanes as
        immunosuppressants)
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ΙT
    Lupus erythematosus
        (systemic; preparation of aminoindanes as immunosuppressants
        )
IT
     Drug delivery systems
        (tablets; preparation of aminoindanes as immunosuppressants
        )
     Injury
TT
        (trauma; preparation of aminoindanes as immunosuppressants
       )
ΙT
     Stomach, disease
        (ulcer; preparation of aminoindanes as immunosuppressants)
IT
     Inflammation
     Intestine, disease
        (ulcerative colitis; preparation of aminoindanes as
        immunosuppressants)
ΙT
    Eye, disease
       Inflammation
        (uveitis; preparation of aminoindanes as immunosuppressants
ΙT
     Blood vessel, disease
      Inflammation
        (vasculitis; preparation of aminoindanes as
       immunosuppressants)
ΙT
     Infection
        (viral hepatitis; preparation of aminoindanes as
       immunosuppressants)
ΙT
     Hepatitis
        (viral; preparation of aminoindanes as immunosuppressants)
     721948-69-2P 721948-70-5P 721948-71-6P 721948-72-7P
ΤT
     721948-73-8P
                   721948-74-9P
                                  721948-75-0P
                                                 721948-76-1P
     721948-77-2P
                   721948-78-3P
                                  721948-79-4P
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     721948-81-8P
                   721948-82-9P
                                   721948-83-0P
                                                 721948-84-1P
     721948-85-2P
                   721948-86-3P 721948-87-4P
                                                 721948-88-5P
     RL: PAC (Pharmacological activity); SPN (Synthetic preparation);
     THU (Therapeutic use); BIOL (Biological study); PREP
     (Preparation); USES (Uses)
        (preparation of aminoindanes as immunosuppressants)
TT
     95-48-7, o-Cresol, reactions 350-92-5 623-51-8, Ethyl
     mercaptoacetate 625-36-5, 3-Chloropropionyl chloride
     1-Iodooctane
                  2550-36-9, Bromomethylcyclohexane
                                                      3470-49-3,
     5-Hydroxy-1-indanone 20029-52-1, 4-Cyclohexylbenzoic acid
                                    34598-49-7, 5-Bromo-1-indanone
     25724-79-2, 5-Cyano-1-indanone
     36476-78-5, Azetidine-3-carboxylic acid 38861-88-0,
     4-(2-Methylpropyl)benzoic acid 100202-39-9, Methyl
     azetidine-3-carboxylate hydrochloride 146631-00-7,
     4-Benzyloxyphenylboronic acid
     RL: RCT (Reactant); RACT (Reactant or reagent)
        (preparation of aminoindanes as immunosuppressants)
     125114-88-7P 146936-34-7P 167279-18-7P
     208108-76-3P 256488-46-7P 685529-03-7P
     721948-89-6P 721948-90-9P 721948-91-0P
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     721948-93-2P
                   721948-94-3P
                                  721948-95-4P
                                                 721948-96-5P
     721948-97-6P
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                                 721948-99-8P
                                                 721949-00-4P
     721949-01-5P 721949-02-6P 721949-03-7P
     RL: RCT (Reactant); SPN (Synthetic preparation); PREP
     (Preparation); RACT (Reactant or reagent)
        (preparation of aminoindanes as immunosuppressants)
L133 ANSWER 2 OF 4 HCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER:
                        2003:591193 HCAPLUS Full-text
DOCUMENT NUMBER:
                        139:149520
TITLE:
                        Preparation of aralkylpyrrolidines and
                         -azetidines as Edg receptor agonists
                        Bugianesi, Robert L.; Doherty, George
INVENTOR(S):
                        A.; Gentry, Amy; Hale, Jeffrey J.
                         ; Lynch, Christopher L.; Mills, Sander
                         G.; Neway, William E., III
```

PATENT ASSIGNEE(S): Merch & Co., Inc., USA
SOURCE: PCT Int. Appl., 112 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT	KIND DATE					DATE									
		_													
WO 2003	A1		2003	0731	1	WO 2		200 011							
W: RW:	CH, GB, KR, MW, SG, VN, GH,	CN, GD, KZ, MX, SK, YU, GM,	CO, GE, LC, MZ, SL, ZA, KE,	CR, GH, LK, NO, TJ, ZM, LS,	CU, GM, LR, NZ, TM, ZW	AU, CZ, HR, LS, OM, TN,	DE, HU, LT, PH, TR,	DK, ID, LU, PL, TT,	BB, DM, IL, LV, PT, TZ,	BG, DZ, IN, MA, RO, UA,	EC, IS, MD, RU, UG,	EE, JP, MG, SC, US,	ES, KE, MK, SD, UZ,	FI, KG, MN, SE, VC,	
	DE, PT, GW,	DK, SE,	EE, SI,	ES, SK, NE,	FI, TR, SN,	FR, BF, TD,	GB, BJ, TG	GR, CF,	HU,	IE,	IT,	LU,	MC,	NL,	
CA 2472	A1		2003	0731	ı		003-	2472	715		200 011				
EP 1470	1470137			A1		2004	1027		EP 2		7057	79		200 011	
R:	MC, EE,	PT, HU,	IE,	SI,	LT,	ES, LV,	FI,	RO,	MK,	CY,	AL,	TR,		•	
JP 2005	5152	59		T		2005	0526	,		003-	5621	29		200 011	
US 2005	A1		2005	0210			004-	5008	95		200 070				
ORITY APP						US 2	 002-	3500	00P		P 200 011				
								,		 003-	US11	96	,	W 200 011	

OTHER SOURCE(S): MARPAT 139:149520

ED Entered STN: 01 Aug 2003

GI

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AΒ
     Title compds. I [Ar = (un)substituted Ph, naphthyl; A = CO2H, P(O)(OH)2, P(O)OH, SO3H,
     1H-tetrazol-5-yl; R1, R2 = H, halogen, OH, CO2H, (un)substituted alkyl; R3 = H,
     (un)substituted alkyl; m, n = 0, 1] were prepared for use as Edg receptor agonists,
     useful for treating immune mediated diseases and conditions, such as bone marrow, organ
     and tissue transplant rejection (no data). Thus, 3-pyrrolidinol was converted to di-Et
     3-hydroxypyrrolidin-3- ylphosphonate and treated with 4-nonylbenzaldehyde, followed by
     ester hydrolysis to give 1-(4-nonylbenzyl)-3-hydroxypyrrolidine-3- phosphonic acid.
ΙT
     350-92-5, 1,1,1-Trifluoro-3-phenyl-2-propanone
    RL: RCT (Reactant); RACT (Reactant or reagent)
        (preparation of aralkylpyrrolidines and -azetidines as Edg receptor
       agonists)
RN
    350-92-5 HCAPLUS
CN
     2-Propanone, 1,1,1-trifluoro-3-phenyl- (CA INDEX NAME)
 F3C__U_CH2_Ph
    ICM C07F009-38
     27-10 (Heterocyclic Compounds (One Hetero Atom))
     Section cross-reference(s): 1
ST
    Edg receptor agonist aralkylpyrrolidine aralkylazetidine prepn
     immunosuppressant
    Chronic lymphocytic leukemia
ΤТ
    Human
       Immunosuppressants
      Lymphoma
      Multiple sclerosis
       Psoriasis
      Rheumatoid arthritis
    Transplant rejection
        (preparation of aralkylpyrrolidines and -azetidines as Edg receptor
       agonists)
ΙT
    Lupus erythematosus
        (systemic; preparation of aralkylpyrrolidines and -azetidines as Edg
        receptor agonists)
TT
     96-33-3, Methyl acrylate 100-83-4, 3-Hydroxybenzaldehyde
    107-13-1, Acrylonitrile, reactions 111-70-6, 1-Heptanol
    121-32-4, 3-Ethoxy-4-hydroxybenzaldehyde 121-33-5,
     4-Hydroxy-3-methoxybenzaldehyde 123-08-0, 4-Hydroxybenzaldehyde
     350-92-5, 1,1,1-Trifluoro-3-phenyl-2-propanone 406-94-0,
    trans-4,4,4-Trifluoro-2-butenoic acid 619-66-9, 4-Formylbenzoic
           623-27-8, Terephthalaldehyde
                                         623-51-8, Ethyl
    mercaptoacetate 629-27-6, 1-Iodooctane 682-30-4, Diethyl
                      2420-16-8, 3-Chloro-4-hydroxybenzaldehyde
    vinylphosphonate
     2495-35-4, Benzyl acrylate 2973-76-4, 3-Bromo-4-hydroxy-5-
    methoxybenzaldehyde 2973-77-5, 3,5-Dibromo-4-
    hydroxybenzaldehyde 6138-90-5, Geranyl bromide
     4-Hydroxy-1-naphthaldehyde
                                15174-69-3, 4-Hydroxy-3-
    methylbenzaldehyde 32247-96-4, 3,5-Bis(trifluoromethyl)benzyl
    bromide 36476-78-5, 3-Azetidinecarboxylic acid
     38841-98-4, Octylmagnesium chloride 40499-83-0,
     3-Hydroxypyrrolidine 54256-43-8, 4-Decylbenzoyl chloride
     54963-70-1, 4-Nonylbenzoyl chloride 56962-11-9,
     2-Chloro-4-hydroxybenzaldehyde 64283-87-0, 4-Phenylbutyl iodide
     65695-05-8 93102-05-7
                             570424-02-1 570424--08-7
     570424-09-8 570424-10-1 570424-11-2
    RL: RCT (Reactant); RACT (Reactant or reagent)
```

(preparation of aralkylpyrrolidines and -azetidines as Edg receptor

```
agonists)
                  24076-33-3P, 3-Methoxy-4-
TТ
    17012-21-4P
                            24083-12-3P, 3-Octyloxybenzaldehyde
     (octyloxy) benzaldehyde
     24083-13-4P, 4-Octyloxybenzaldehyde 54784-14-4P,
     4-(Octyloxy)-1-naphthaldehyde 59378-87-9P, 3-
    Pyrrolidinecarboxylic acid 62299-38-1P
                                             70972-98-4P,
     4-Nonylbenzaldehyde 70972-99-5P, 4-Decylbenzaldehyde
    101385-93-7P 103057-44-9P 108898-23-3P 131888-48-7P
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     256488-46-7P 569684-92-0P 569684-93-1P
                                                 569684-95-3P
    569685-33-2P 569685-34-3P 569685-42-3P
    569685-43-4P 569685-49-0P 569685-50-3P
     570423-86-8P 570423-87-9P 570423-88-0P
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    RL: RCT (Reactant); SPN (Synthetic preparation); PREP
     (Preparation); RACT (Reactant or reagent)
        (preparation of aralkylpyrrolidines and -azetidines as Edg receptor
       agonists)
ΙT
    570423-28-8P 570423-29-9P 570423-30-2P
     570423-31-3P 570423-32-4P 570423-33-5P
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     570423-49-3P 570423-50-6P 570423-51-7P
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     570423-55-1P 570423-56-2P 570423-57-3P
    570423-58-4P 570423-59-5P 570423-61-9P 570423-62-0P
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    RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL
     (Biological study); PREP (Preparation); USES (Uses)
        (preparation of aralkylpyrrolidines and -azetidines as Edg receptor
        agonists)
ΤТ
     570424-12-3
    RL: RCT (Reactant); RACT (Reactant or reagent)
        ('preparation of aralkylpyrrolidines and -azetidines as Edg receptor
       agonists)
REFERENCE COUNT:
                              THERE ARE 1 CITED REFERENCES AVAILABLE
                        1
                              FOR THIS RECORD. ALL CITATIONS AVAILABLE
                              IN THE RE FORMAT
L133 ANSWER 3 OF 4 HCAPLUS COPYRIGHT 2007 ACS on STN
                        2003:591190 HCAPLUS Full-text
ACCESSION NUMBER:
                        139:149756
DOCUMENT NUMBER:
TITLE:
                        Preparation of N-(benzyl)aminoalkylcarboxylate
                        s, phosphinates, phosphonates and tetrazoles
                        as EDG receptor agonists
INVENTOR(S):
                        Doherty, George A.; Li, Zhen
                        ; Hale, Jeffrey J.; Mills,
                        Sander G.
PATENT ASSIGNEE(S):
                        Merck & Co., Inc., USA
SOURCE:
                        PCT Int. Appl., 152 pp.
                        CODEN: PIXXD2
DOCUMENT TYPE:
                        Patent.
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LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PA'	PATENT NO.						KIND DATE			APPLICATION NO.						
	 2003062248				A2 20030731			WO 2003-US1059						2003 0114		
	2003062248				< A3 20060302											
WO	2003 W:	AE, CH, GB, KR, MW, SG,	AG, CN, GD, KZ, MX,	CO, GE, LC, MZ, SL,	CR, GH, LK, NO, TJ,	CU, GM, LR, NZ, TM,	AU, CZ, HR, LS, OM, TN,	AZ, DE, HU, LT, PH,	DK, ID, LU, PL,	DM, IL, LV, PT,	DZ, IN, MA, RO,	EC, IS, MD, RU,	EE, JP, MG, SC,	ES, KE, MK, SD,	FI, KG, MN, SE,	
	RW:	GH, AZ, DE, PT,	GM, BY, DK, SE,	KE, KG, EE, SI,	LS, KZ, ES, SK,	MW, MD, FI, TR,	MZ, RU, FR, BF,	TJ, GB, BJ,	TM, GR,	AT, HU,	BE, IE,	BG, IT,	CH, LU,	CY, MC,	CZ, NL,	
CA	CA 2472713				A1		2003		1	2003						
JP	P 2005527494			т 20050915			0915	< JP 2003-562125						0114 2003 0114		
EP	EP 1575964			A2		2005	0921		EP 2	 003-	7021	10		2003 0114		
	R:	MC,		IE,			ES, LV,			GR,	IT,					
US	2005				A1		2005	0127		US 2	004-	5008	11		2004 0707	
PRIORIT	RIORITY APPLN. INFO.:									US 2		3499	95P	1	2002 0118	
										< WO 2	 003-	US10	59	Ţ	2003 0114	

OTHER SOURCE(S): MARPAT 139:149756

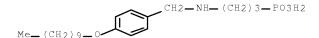
ED Entered STN: 01 Aug 2003

The present invention encompasses preparation of compds., A(CR1R2)nNHCHR3Ar{(R4)0-4}BC (Ar = Ph, naphthyl, etc.; A = CO2H, 1H-tetrazol-5-yl, PO3H2, PO2H2, SO3H, PO(R5)OH, R5 = C1-4 alkyl, hydroxyC1-4alkyl, Ph, COC1-3alkoxy, CH(OH)Ph, etc.; n = 2-4; R1, R2 = independently selected from H, halo, OH, CO2H, C1-6 alkyl, Ph, etc.; R3 = H, C1-4 alkyl, etc.; R4 = CO2H, C1-4 alkyl, sulfonylalkyl, alkoxy, alkoxycyclopropyl, aryl, aryloxy, etc.; C = C1-8 alkyl, C1-8 alkoxy, heterocyclyl, etc.; B = (un)substituted Ph, (un)substituted C5-16 alkyl, (un)substituted C5-16 alkynyl, etc.), as well as the pharmaceutically acceptable salts and hydrates thereof. The compds. are useful for treating immune mediated diseases and conditions, such as bone marrow, organ and tissue transplant rejection. Pharmaceutical compns. and methods of use are included. Thus, reaction of 3-aminopropylphosphonic acid with 4- (decyloxy)benzaldehyde in presence of Bu4NOH and sodium cyanoborohydride in MeOH for 1h at 50° gave title compound, N-((4-decyloxy)benzyl)-3-aminopropylphosphonic acid.

IT 569682-66-2P

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RL: BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of (benzyl)aminoalkylcarboxylates, phosphinates, phosphonates and tetrazoles as EDG receptor agonists)

RN 569682-66-2 HCAPLUS
CN Phosphonic acid, [3-[[[4-(decyloxy)phenyl]methyl]amino]propyl]-(9CI) (CA INDEX NAME)
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- (Graves ophthalmopathy; preparation of (benzyl)aminoalkylcarboxylate s, phosphinates, phosphonates and tetrazoles as EDG receptor agonists)

- IT Autoimmune disease
 Cardiovascular agents
 Cardiovascular system
 Chronic lymphocytic leukemia
 Cirrhosis

Drug delivery systems Human Immunosuppressants

Immunosuppression Mammalia

> Multiple sclerosis (preparation of (benzyl)aminoalkylcarboxylates, phosphinates, phosphonates and tetrazoles as EDG receptor agonists)

IT Lapus erythematosus (systemic; preparation of (benzyl)aminoalkylcarboxylates, phosphinates, phosphonates and tetrazoles as EDG receptor agonists)

IT Inflammation

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Intestine, disease
        (ulcerative colitis; preparation of (benzyl)aminoalkylcarboxylates,
       phosphinates, phosphonates and tetrazoles as EDG receptor
       agonists)
ΙT
    Eye, disease
      Inflammation
        (uveitis; preparation of (benzyl)aminoalkylcarboxylates,
       phosphinates, phosphonates and tetrazoles as EDG receptor
       agonists)
    569682-66-2P 569682-67-3P 569682-68-4P
ΙT
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    569684-87-3P 569684-88-4P
    RL: BSU (Biological study, unclassified); SPN (Synthetic
    preparation); THU (Therapeutic use); BIOL (Biological study); PREP
     (Preparation); USES (Uses)
        (preparation of (benzyl)aminoalkylcarboxylates, phosphinates,
       phosphonates and tetrazoles as EDG receptor agonists)
     56-12-2, reactions 64-04-0, Benzeneethanamine 75-07-0,
    Acetaldehyde, reactions 83-38-5 98-80-6, Phenylboronic acid
     100-52-7, Benzaldehyde, reactions 103-63-9, Phenethyl bromide
    106-41-2, 4-Bromophenol 107-08-4, 1-Iodopropane 107-13-1,
    Acrylonitrile, reactions 107-95-9, β-Alanine 111-70-6,
     1-Heptanol 111-86-4, Octylamine 112-31-2, n-Decanal
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121-32-4, 3-Ethoxy-4-hydroxybenzaldehyde 121-33-5 123-08-0,
4-Hydroxybenzaldehyde 123-38-6, Propanal, reactions 139-85-5,
3,4-Dihydroxybenzaldehyde 143-16-8 144-90-1 350-92-5
437-81-0 541-48-0 542-69-8, 1-Iodobutane 556-18-3, 4-Aminobenzaldehyde 565-71-9 589-29-7, 1,4-Benzenedimethanol
591-20-8, 3-Bromophenol 616-76-2 619-66-9,
4-Carboxybenzaldehyde 623-27-8, 1,4-Benzenedicarboxaldehyde
623-51-8, Ethyl mercaptoacetate 629-27-6, 1-Iodooctane
637-59-2 638-45-9, 1-Iodohexane 660-88-8 764-85-2, Nonanoyl
chloride 924-49-2 2050-77-3, 1-Iododecane 2052-07-5
2113-57-7 2233-18-3 2314-36-5 2374-05-2,
4-Bromo-2,6-dimethylphenol 2420-16-8, 3-Chloro-4-
hydroxybenzaldehyde 2439-54-5 2973-76-4 2973-78-6
3111-37-3 3132-99-8, 3-Bromobenzaldehyde 3261-62-9
          3453-33-6, 6-Methoxy-2-naphthaldehyde
3300-51-4
3761-92-0, Hexylmagnesium bromide 3964-56-5 4282-40-0,
1-Iodoheptane 4282-42-2, 1-Iodononane 4282-44-4, 1-Iodoundecane 4815-96-7 5438-36-8 5699-54-7
7013-05-0 7368-78-7, 4-Bromo-2-methoxyphenol 7463-51-6,
4-Bromo-3,5-dimethylphenol 7530-27-0 7770-45-8 10521-91-2,
5-Phenyl-1-pentanol 13138-33-5, 3-Aminopropylphosphonic acid
13214-66-9, Benzenebutanamine 13477-53-7 13880-74-5
18278-34-7, 4-Hydroxy-2-methoxybenzaldehyde 19463-48-0
23703-22-2 25006-17-1 35622-27-6 38841-98-4, Octylmagnesium
chloride 40371-51-5 49763-66-8, 4-Octylbenzaldehyde
51554-95-1 56217-93-7, 1H-Tetrazole-5-propanamine 56962-11-9,
2-Chloro-4-hydroxybenzaldehyde 58521-63-4 64283-87-0
65564-05-8, 3-(Benzyloxycarbonylamino) propanal 65600-74-0,
Ethyldiethoxymethyl phosphinate 65695-05-8 70547-87-4
70972-98-4, 4-Nonylbenzaldehyde 70972-99-5
                                             76287-49-5
76542-24-0, 1-Bromo-4-(nonylthio)benzene 103680-71-3
127729-35-5 130592-02-8 148547-19-7, Methyl
4-bromo-3-methylbenzoate 495397-19-8 569684-89-5 569685-44-5
569685-48-9 569685-53-6
RL: RCT (Reactant); RACT (Reactant or reagent)
   (preparation of (benzyl)aminoalkylcarboxylates, phosphinates,
  phosphonates and tetrazoles as EDG receptor agonists)
24076-33-3P 24083-13-4P, 4-Octyloxybenzaldehyde 30609-20-2P
50262-46-9P 54784-14-4P 56308-79-3P 56741-21-0P
60951-75-9P 61343-82-6P 71434-34-9P 75472-36-5P
75677-08-6P 78119-82-1P, 6-Hydroxy-2-naphthaldehyde
83697-65-8P 93972-07-7P 93972-08-8P 99186-35-3P,
4-Hydroxy-3-propyloxybenzaldehyde 101500-22-5P 103680-62-2P
108898-23-3P 121118-78-3P 123912-25-4P 131888-48-7P
143230-66-4P 149104-89-2P, 4-Bromo-3-methylbenzyl alcohol
              169806-13-7P 208108-76-3P
167279-18-7P
221018-00-4P, [1,1':2',1''-Terphenyl]-4-carboxaldehyde
226408-14-6P, [1,1':3',1''-Terphenyl]-4-carboxaldehyde
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569685-52-5P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP
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ΙT

(Preparation); RACT (Reactant or reagent)
 (preparation of (benzyl)aminoalkylcarboxylates, phosphinates,
 phosphonates and tetrazoles as EDG receptor agonists)

L133 ANSWER 4 OF 4 HCAPLUS COPYRIGHT 2007 ACS on STN ACCESSION NUMBER: 2003:590932 HCAPLUS Full-text

DOCUMENT NUMBER: 139:149413

TITLE: Selective S1P1/Edg1 receptor agonists

INVENTOR(S): Doherty, George A.; Forrest,
Michael J.; Hajdu, Richard;
Hale, Jeffrey J.; Li, Zhen;
Mandala Suzanne M. Mills

Mandala, Suzanne M.; Mills, Sander G.; Rosen, Hugh; Scolnick, Edward M.

PATENT ASSIGNEE(S): Merck & Co., Inc., USA SOURCE: PCT Int. Appl., 202 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

	CENT				KIND DATE				DATE							
	2003	A2 20030731				1	2003 0114									
WO	2003	AE, CH,	AG, CN,	AL, CO,	CR,	AT, CU,	2003 AU, CZ, HR,	AZ, DE,	DK,	DM,	DZ,	EC,	EE,	ES,	FI,	
		MW, SG,	MX,	MZ, SL,	NO, TJ,	NZ, TM,	LS, OM, TN,	PH,	PL,	PT,	RO,	RU,	SC,	SD,	SE,	
	RW:	GH, AZ, DE,	GM, BY, DK,	KE, KG, EE,	LS, KZ, ES,	MW, MD, FI,	MZ, RU, FR, BF,	TJ, GB,	TM, GR,	AT, HU,	BE, IE,	BG, IT,	CH, LU,	CY, MC,	CZ, NL,	
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US	2004058894			A1		2004	0325	•		003-	3393	80		2003 0109		
CA	2472680			A1 20030731				CA 2003-2472680						2003 0114		
					- 0 0004400				< EP 2003-731917							
EP	1469863			A2		2004	1027	•			7319	17		2003 0114		
	ъ.	7. 77	DE	CII	DE	DIZ	EC	ED	CD	-	 	т т	T TT	NIT	CE	
	R:	MC,		IE,			ES, LV,									
AU	2003	,	,		В2		2007	0104		AU 2	003-	2160	54		2003 0114	
								<								
US 2005070506					A1 20050331									2004 0712		
RTTY	Y APP							 002-	3499	91D		D				
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US 2002-362566P P
2002
0307
--US 2002-382933P P
2002
0523
--WO 2003-US1120 W
2003
0114

ED Entered STN: 01 Aug 2003

The present invention encompasses a method of treating an immunoregulatory abnormality in a mammalian patient in need of such treatment comprising administering to said patient a compound which is an agonist of the S1P1/Edg1 receptor in an amount effective for treating said immunoregulatory abnormality, wherein said compound possesses a selectivity for the S1P1/Edg1 receptor over the S1PR3/Edg3 receptor, said compound administered in an amount effective for treating said immunoregulatory abnormality. Thus, 4-HOC6H4CHO was treated with Me(CH2)7I to give 4-Me(CH2)7OC6H4CHO which was treated with H2N(CH2)3P(O)(OH)2 to give 4-Me(CH2)7OC6H4CH2NH(CH2)3P(O)(OH)2 which had an EC50 for S1P1 agonism of 1.5 nM and for S1P3 agonism of 6.0 nM.

IT 569684-52-2P

RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

(preparation of amino functionalized organo phosphonates or organo carboxylates as \$1P1/Edg1 receptor

agonists)

RN 569684-52-2 HCAPLUS

CN Phosphinic acid, [3-[[(4-nonylphenyl)methyl]amino]propyl]- (9CI) (CA INDEX NAME)

IC ICM A61K

CC 29-7 (Organometallic and Organometalloidal Compounds)

Section cross-reference(s): 1, 10, 25, 63

IT Repatitis

(B, acute; preparation of amino functionalized organo phosphonates or organo carboxylates as \$1.P1/Edg1

receptor agonists)

IT Inflammation

(Crohn's disease; preparation of amino functionalized organo phosphonates or organo carboxylates as \$1P1/

Edg1 receptor agonists)

IT Intestine, disease

(Crohn's; preparation of amino functionalized organo phosphonates or organo carboxylates as S1P1/Edg1 receptor agonists)

IT G protein-coupled receptors

RL: BSU (Biological study, unclassified); BIOL (Biological study) (EDG-1 (endothelial differentiation gene 1); preparation of amino functionalized organo phosphonates or organo carboxylates as S1P1/Edq1 receptor agonists)

IT G protein-coupled receptors

RL: BSU (Biological study, unclassified); BIOL (Biological study)

 $({\tt EDG-3}$ (endothelial differentiation gene 3); preparation of amino functionalized organo phosphonates or organo carboxylates as S1P1/Edg1 receptor agonists) ΙT Anemia (disease) (Fanconi's; preparation of amino functionalized organo phosphonates or organo carboxylates as S1P1/Edg1 receptor agonists) ΤТ Kidney, disease (Goodpasture's syndrome; preparation of amino functionalized organo phosphonates or organo carboxylates as S1P1/ Edgl receptor agonists) ΙT Eye, disease Graves' disease (Graves' ophthalmopathy; preparation of amino functionalized organo phosphonates or organo carboxylates as S1P1/ Edgl receptor agonists) ΙT Nervous system, disease (Guillain-Barre syndrome; preparation of amino functionalized organo phosphonates or organo carboxylates as \$1P1/ Edgl receptor agonists) Ear, disease TT (Meniere's; preparation of amino functionalized organo phosphonates or organo carboxylates as S1P1/Edg1 receptor agonists) ΙT Skin, neoplasm (Sezary syndrome; preparation of amino functionalized organo phosphonates or organo carboxylates as S1P1/ Edgl receptor agonists) IT 3kin, neoplasm (T-cell lymphoma; preparation of amino functionalized organo phosphonates or organo carboxylates as S1P1/ Edgl receptor agonists) ΙT Disease, animal (Vogt-Koyanagi-Harada's syndrome; preparation of amino functionalized organo phosphonates or organo carboxylates as SIP1/Edg1 receptor agonists) ΙT Granulomatous disease (Wegener's granulomatosis; preparation of amino functionalized organo phosphonates or organo carboxylates as S1P1/ Edg1 receptor agonists) ΙT Infection (acute hepatitis B; preparation of amino functionalized organo phosphonates or organo carboxylates as S1P1/ Edgl receptor agonists) Allergy ΙT Eye, disease Inflammation (allergic conjunctivitis; preparation of amino functionalized organo phosphonates or organo carboxylates as S1P1/ Edgl receptor agonists) ΤТ Edema (angioneurotic; preparation of amino functionalized organo phosphonates or organo carboxylates as S1P1/ Edgl receptor agonists) Antiarteriosclerotics ΙT (antiatherosclerotics; preparation of amino functionalized organo phosphonates or organo carboxylates as SIP1/ Edg1 receptor agonists) TT Erythropoiesis (aplasia; preparation of amino functionalized organo phosphonates or organo carboxylates as S1P1/Edg1 receptor agonists) TT Anemia (disease) (aplastic; preparation of amino functionalized organo phosphonates or organo carboxylates as S1P1/Edg1 receptor agonists)

ΙT

Alopecia

(areata; preparation of amino functionalized organo phosphonates or organo carboxylates as S1P1/Edg1 receptor agonists) ΙT Dermatitis (atopic; preparation of amino functionalized organo phosphonates or organo carboxylates as S1P1/Edg1 receptor agonists) ΤТ Chemotherapy (augmentation of; preparation of amino functionalized organo phosphonates or organo carboxylates as S1P1/ Edgl receptor agonists) ΙT Anemia (disease) Autoimmune disease (autoimmune hemolytic anemia; preparation of amino functionalized organo phosphonates or organo carboxylates as S1F1/Edg1 receptor agonists) Autoimmune disease ΙT Inflammation Thyroid gland, disease (autoimmune thyroiditis; preparation of amino functionalized organo phosphonates or organo carboxylates as SlP1/Edg1 receptor agonists) ΙT Hepatitis (autoimmune; preparation of amino functionalized organo phosphonates or organo carboxylates as S1P1/ Edg1 receptor agonists) ΙT Infection (bacterial; preparation of amino functionalized organo phosphonates or organo carboxylates as S1P1/Edgl receptor agonists) ΙT Cirrhosis (biliary; preparation of amino functionalized organo phosphonates or organo carboxylates as S1P1/Edg1 receptor agonists) тт Bronchi, disease Inflammation (bronchitis; preparation of amino functionalized organo phosphonates or organo carboxylates as S1P1/Edg1 receptor agonists) ΙT Skin, disease (bullous pemphigoid; preparation of amino functionalized organo phosphonates or organo carboxylates as S1P1/ Edg1 receptor agonists) IT Inflammation (carditis; preparation of amino functionalized organo phosphonates or organo carboxylates as S1P1/Edg1 receptor agonists) ΙT Dermatitis (contact; preparation of amino functionalized organo phosphonates or organo carboxylates as S1P1/Edg1 receptor agonists) Lymphoma IT (cutaneous T-cell; preparation of amino functionalized organo phosphonates or organo carboxylates as S1P1/ Edg1 receptor agonists) ΙT Connective tissue, disease Inflammation (eosinophilic fasciitis; preparation of amino functionalized organo phosphonates or organo carboxylates as S1P1/ Edgl receptor agonists) IΤ Skin, disease (epidermolysis bullosa; preparation of amino functionalized organo phosphonates or organo carboxylates as S1P1/ Edgl receptor agonists) TT Autoimmune disease (exptl. autoimmune encephalomyelitis; preparation of amino functionalized organo phosphonates or organo carboxylates as

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SIP1/Edg1 receptor agonists)
ΙT
    Encephalomyelitis
        (exptl. autoimmune; preparation of amino functionalized
        organo phosphonates or organo carboxylates as $191/
        Edgl receptor agonists)
TT
     Kidney, disease
        (failure, acute, ischemic; preparation of amino functionalized
        organo phosphonates or organo carboxylates as S1P1/
        Edgl receptor agonists)
ΙT
     Kidney, disease
        (failure, chronic; preparation of amino functionalized organo
        phosphonates or organo carboxylates as S1P1/
        Edg1 receptor agonists)
     Liver, disease
TT
        (failure; preparation of amino functionalized organo phosphonates or
        organo carboxylates as S1P1/Edg1 receptor
        agonists)
     Digestive tract, disease
IT
       Inflammation
        (gastroenteritis, eosinophilic; preparation of amino functionalized
        organo phosphonates or organo carboxylates as S1P1/
        Edgl receptor agonists)
ΙT
     Ginqiva, disease
       Inflammation
        (gingivitis; preparation of amino functionalized organo phosphonates
        or organo carboxylates as S1P1/Edgl
        receptor agonists)
TT
     Inflammation
     Kidney, disease
        (glomerulonephritis; preparation of amino functionalized organo
        phosphonates or organo carboxylates as S1P1/
        Edgl receptor agonists)
ΙT
     Hair preparations
        (growth stimulants; preparation of amino functionalized organo
        phosphonates or organo carboxylates as SIP1/
        Edg1 receptor agonists)
     Kidney, disease
ΙT
        (hemolytic-uremic syndrome; preparation of amino functionalized
        organo phosphonates or organo carboxylates as $1P1/
        Edg1 receptor agonists)
TT
     Eye, disease
       Infection
       Inflammation
        (herpetic keratitis; preparation of amino functionalized organo
        phosphonates or organo carboxylates as $1P1/
        Edgl receptor agonists)
ΙT
     Skin, disease
        (hyperproliferation; preparation of amino functionalized organo
        phosphonates or organo carboxylates as S1P1/
        Edgl receptor agonists)
IT
     Skin, disease
        (ichthyosis; preparation of amino functionalized organo phosphonates
        or organo carboxylates as 31P1/Edg1
        receptor agonists)
IT
     Purpura (disease)
        (idiopathic thrombocytopenic; preparation of amino functionalized
        organo phosphonates or organo carboxylates as S1P1/
        Edgl receptor agonists)
TT
     Intestine, disease
        (inflammatory; preparation of amino functionalized organo
        phosphonates or organo carboxylates as S1P1/
        Edgl receptor agonists)
TТ
     Inflammation
     Kidney, disease
        (interstitial nephritis; preparation of amino functionalized organo
        phosphonates or organo carboxylates as S1P1/
        Edgl receptor agonists)
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ΙT
     Pneumonia
        (interstitial; preparation of amino functionalized organo
        phosphonates or organo carboxylates as S1P1/
        Edg1 receptor agonists)
ΙT
     Eye, disease
       Inflammation
        (keratitis; preparation of amino functionalized organo phosphonates
        or organo carboxylates as 31P1/Edg1
        receptor agonists)
ΙT
     Eye, disease
       Inflammation
        (keratoconjunctivitis; preparation of amino functionalized organo
        phosphonates or organo carboxylates as S1P1/
        Edg1 receptor agonists)
TТ
     Skin, disease
        (lichen planus; preparation of amino functionalized organo
        phosphonates or organo carboxylates as S1P1/
        Edgl receptor agonists)
ΙT
     Necrosis
        (liver, acute; preparation of amino functionalized organo
        phosphonates or organo carboxylates as S1P1/
        Edgl receptor agonists)
     Eye, disease
IΤ
        (macula, senile degeneration; preparation of amino functionalized
        organo phosphonates or organo carboxylates as SIP1/
        Edg1 receptor agonists)
ΙT
     Anemia (disease)
        (megaloblastic anemia; preparation of amino functionalized organo
        phosphonates or organo carboxylates as S1P1/
        Edg1 receptor agonists)
ΙT
     Carcinoma
        (metastasis; preparation of amino functionalized organo phosphonates
        or organo carboxylates as S1P1/Edg1
        receptor agonists)
TТ
     Headache
        (migraine; preparation of amino functionalized organo phosphonates
        or organo carboxylates as S1P1/Edg1
        receptor agonists)
ΙT
     Erythema
        (multiforme; preparation of amino functionalized organo phosphonates
        or organo carboxylates as S1P1/Edg1
        receptor agonists)
ΤТ
    Heart, disease
       Inflammation
        (myocarditis; preparation of amino functionalized organo
        phosphonates or organo carboxylates as S1P1/
        Edgl receptor agonists)
ΙT
     Liver, disease
        (necrosis, acute; preparation of amino functionalized organo
        phosphonates or organo carboxylates as S1P1/
        Edgl receptor agonists)
ΙT
     Inflammation
     Nerve, disease
        (neuritis; preparation of amino functionalized organo phosphonates
        or organo carboxylates as S1P1/Edg1
        receptor agonists)
ΙT
     Repatitis
        (non-A, non-B; preparation of amino functionalized organo
        phosphonates or organo carboxylates as S1P1/
        Edgl receptor agonists)
IΤ
     Inflammation
     Pancreas, disease
        (pancreatitis; preparation of amino functionalized organo
        phosphonates or organo carboxylates as SIP1/
        Edg1 receptor agonists)
     Skin, disease
ΙT
        (pemphigus foliaceus; preparation of amino functionalized organo
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phosphonates or organo carboxylates as S1P1/
        Edgl receptor agonists)
ΙT
    Artery, disease
       Inflammation
        (periarteritis nodosa; preparation of amino functionalized organo
        phosphonates or organo carboxylates as S1P1/
        Edgl receptor agonists)
IΤ
     Inflammation
     Periodontium, disease
        (periodontitis; preparation of amino functionalized organo
        phosphonates or organo carboxylates as S1P1/
        Edgl receptor agonists)
ΙT
     Anemia (disease)
        (pernicious anemia; preparation of amino functionalized organo
        phosphonates or organo carboxylates as S1P1/
        Edgl receptor agonists)
ΙT
    Allergy
        (photoallergic contact dermatitis; preparation of amino
        functionalized organo phosphonates or organo carboxylates as
        SIP1/Edg1 receptor agonists)
ΤТ
     Dermatitis
        (photoallergic contact; preparation of amino functionalized organo
        phosphonates or organo carboxylates as S1P1/
        Edg1 receptor agonists)
ΙT
    Allergy
        (pollen; preparation of amino functionalized organo phosphonates or
        organo carboxylates as S1P1/Edg1 receptor
        agonists)
    Myositis
TТ
        (polymyositis; preparation of amino functionalized organo
        phosphonates or organo carboxylates as S1P1/
        Edgl receptor agonists)
ΙT
    AIDS (disease)
       Acne
     Addison's disease
    Aging, animal
     Agranulocytosis
    Allergy inhibitors
    Anti-AIDS agents
    Anti-inflammatory agents
    Anti-ischemic agents
    Antiarteriosclerotics
    Antiarthritics
    Antiasthmatics
     Antibacterial agents
    Anticoagulants
     Antidiabetic agents
     Antihistamines
     Antimigraine agents
    Antitumor agents
    Antiulcer agents
     Arteriosclerosis
       Asthma
     Atherosclerosis
       Behcet's syndrome
     Blood coagulation
     Celiac disease
       Chronic lymphocytic leukemia
     Cirrhosis
       Dermatomyositis
     Diabetes mellitus
     Drug screening
       Eczema
       Emphysema
     Eosinophilia
       Erythema
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Gingiva, disease

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Graves' disease
     Human
     Hyperthyroidism
     Hypoxia
       Immunosuppressants
     Ischemia
     Leukotriene antagonists
       Lung, neoplasm
       Lymphocytic leukemia
      Lymphoma
      Mastocytoma
      Multiple sclerosis
      Muscular dystrophy
    Myasthenia gravis
    Myositis
     Nervous system agents
     Osteoporosis
     Periodontium
       Psoriasis
       Rheumatic fever
       Rheumatoid arthritis
       Sarcoidosis
       Sepsis
       Sjogren syndrome
       Transformation, neoplastic
     Transplant rejection
       Urticaria
        (preparation of amino functionalized organo phosphonates or organo
        carboxylates as S1F1/Edg1 receptor
        agonists)
ΙT
     Inflammation
     Intestine, disease
        (pseudomembranous enterocolitis; preparation of amino functionalized
        organo phosphonates or organo carboxylates as S1P1/
        Edgl receptor agonists)
TT
     Skin, disease
        (pyoderma; preparation of amino functionalized organo phosphonates
        or organo carboxylates as S1P1/Edg1
        receptor agonists)
ΙT
     Inflammation
        (rectal; preparation of amino functionalized organo phosphonates or
        organo carboxylates as S1P1/Edg1 receptor
        agonists)
TT
     Intestine, disease
        (rectum, inflammation; preparation of amino functionalized organo
        phosphonates or organo carboxylates as S1P1/
        Edgl receptor agonists)
ΙT
     Eye, disease
       Inflammation
        (retinitis pigmentosa; preparation of amino functionalized organo
        phosphonates or organo carboxylates as S1P1/
        Edg1 receptor agonists)
ΤТ
    Inflammation
      Nose, disease
        (rhinitis; preparation of amino functionalized organo phosphonates
        or organo carboxylates as 31P1/Edg1
        receptor agonists)
ΤТ
    Connective tissue, disease
        (scleroderma; preparation of amino functionalized organo
        phosphonates or organo carboxylates as S1P1/
        Edg1 receptor agonists)
ΙT
     Biliary tract, disease
       Inflammation
        (sclerosing cholangitis; preparation of amino functionalized organo
        phosphonates or organo carboxylates as S1P1/
        Edg1 receptor agonists)
    Mental and behavioral disorders
ΙT
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(senile psychosis; preparation of amino functionalized organo
        phosphonates or organo carboxylates as SIP1/
        Edgl receptor agonists)
ΙT
     Shock (circulatory collapse)
        (septic; preparation of amino functionalized organo phosphonates or
        organo carboxylates as S1P1/Edg1 receptor
        agonists)
ΤТ
     Disease, animal
        (siderosis; preparation of amino functionalized organo phosphonates
        or organo carboxylates as S1P1/Edg1
        receptor agonists)
IT
     Lupus erythematosus
        (systemic; preparation of amino functionalized organo phosphonates
        or organo carboxylates as S1P1/Edg1
        receptor agonists)
ΙT
     Injury
        (trauma; preparation of amino functionalized organo phosphonates or
        organo carboxylates as S1P1/Edg1 receptor
        agonists)
ΙT
     Shock (circulatory collapse)
        (traumatic; preparation of amino functionalized organo phosphonates
        or organo carboxylates as S1P1/Edg1
        receptor agonists)
ΙT
     Respiratory system, disease
        (treatment; preparation of amino functionalized organo phosphonates
        or organo carboxylates as S1P1/Edgl
        receptor agonists)
ΤТ
     Inflammation
     Intestine, disease
        (ulcerative colitis; preparation of amino functionalized organo
        phosphonates or organo carboxylates as SIP1/
        Edg1 receptor agonists)
ΙT
    Eye, disease
       Inflammation
        (uveitis; preparation of amino functionalized organo phosphonates or
        organo carboxylates as SIP1/Edg1 receptor
        agonists)
     Blood vessel, disease
ΙT
       Inflammation
        (vasculitis; preparation of amino functionalized organo phosphonates
        or organo carboxylates as S1P1/Edg1
        receptor agonists)
    Infection
TТ
        (viral hepatitis; preparation of amino functionalized organo
        phosphonates or organo carboxylates as $1P1/
        Edgl receptor agonists)
ΙT
     Repatitis
        (viral; preparation of amino functionalized organo phosphonates or
        organo carboxylates as SIP1/Edg1 receptor
        agonists)
                    569684-61-3P 571206-20-7P
IΤ
     569684-52-2P
     RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic
     preparation); THU (Therapeutic use); BIOL (Biological study); PREP
     (Preparation); RACT (Reactant or reagent); USES (Uses)
        (preparation of amino functionalized organo phosphonates or organo
        carboxylates as S1P1/Edg1 receptor
        agonists)
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571206-41-2P 571206-42-3P 571206-43-4P
571206-44-5P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation);
THU (Therapeutic use); BIOL (Biological study); PREP
(Preparation); USES (Uses)
   (preparation of amino functionalized organo phosphonates or organo
  carboxylates as $1P1/Edg1 receptor
  agonists)
56-12-2, 4-Aminobutanoic acid, reactions 64-04-0, Phenethylamine
96-33-3, Methyl acrylate 98-80-6, Phenylboronic acid 100-83-4,
3-Hydroxybenzaldehyde 106-41-2, 4-Bromophenol 107-13-1,
Acrylonitrile, reactions 111-70-6, 1-Heptanol
                                                 111 - 86 - 4,
1-Octanamine 121-32-4, 3-Ethoxy-4-hydroxybenzaldehyde
121-33-5, 4-Hydroxy-3-methoxybenzaldehyde
                                          123-08-0,
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4-Hydroxybenzaldehyde 139-85-5, 3,4-Dihydroxybenzaldehyde
143-16-8, Dihexylamine 350-92-5, 1,1,1-Trifluoro-3-
phenyl-2-propanone 401-95-6, 3,5-Bis(trifluoromethyl)benzaldehyd
    542-69-8, 1-Iodobutane 556-18-3, 4-Aminobenzaldehyde
589-29-7, 1,4-Benzenedimethanol 591-20-8, 3-Bromophenol 619-66-9, 4-Formylbenzoic acid 623-27-8, Terephthalaldehyde
629-27-6, 1-Iodooctane 637-59-2, 1-Bromo-3-phenylpropane
638-45-9, 1-Iodohexane 682-30-4, Diethyl vinylphosphonate
924-49-2, 4-Amino-3-hydroxybutanoic acid 2052-07-5,
2-Bromobiphenyl 2113-57-7, 3-Bromobiphenyl 2233-18-3,
4-Hydroxy-3,5-dimethylbenzaldehyde 2314-36-5,
3,5-Dichloro-4-hydroxybenzaldehyde 2374-05-2,
4-Bromo-2,6-dimethylphenol 2420-16-8, 3-Chloro-4-
hydroxybenzaldehyde 2439-54-5, N-Methyloctylamine
                                                       2495-35-4,
Benzyl acrylate 2973-76-4, 3-Bromo-4-hydroxy-5-
methoxybenzaldehyde 2973-77-5, 3,5-Dibromo-4-
hydroxybenzaldehyde 2973-78-6, 3-Bromo-4-hydroxybenzaldehyde
3111-37-3, 3-Bromo-5-ethoxy-4-hydroxybenzaldehyde 3132-99-8,
3-Bromobenzaldehyde 3261-62-9, 4-Methylphenethylamine
3300-51-4, 4-Trifluoromethylbenzylamine 3453-33-6,
6-Methoxy-2-naphthaldehyde 3761-92-0, Hexylmagnesium bromide
3964-56-5, 4-Bromo-2-chlorophenol 4282-40-0, 1-Iodoheptane
4282-42-2, 1-Iodononane 4282-44-4, 1-Iodoundecane 4815-96-7,
3-Bromo-5-benzyloxy-4-hydroxybenzaldehyde 5438-36-8,
4-Hydroxy-3-iodo-5-methoxybenzaldehyde 6138-90-5, Geranyl
bromide 6323-99-5 7368-78-7, 4-Bromo-2-methoxyphenol
7463-51-6, 4-Bromo-3,5-dimethylphenol 7530-27-0,
4-Bromo-2-chloro-6-methylphenol 7770-45-8, 4-Hydroxy-1-
naphthaldehyde 10521-91-2, 5-Phenyl-1-pentanol 13138-33-5,
3-Aminopropylphosphonic acid 13214-66-9, Benzenebutanamine
13477-53-7, 4-Amino-2-hydroxybutanoic acid 13631-21-5,
4-Bromo-3-chlorophenol 13880-74-5, 4-Aminopentanoic acid
15174-69-3, 4-Hydroxy-3-methylbenzaldehyde 18278-34-7,
4-Hydroxy-2-methoxybenzaldehyde 19463-48-0, 3-Chloro-4-hydroxy-5-methoxybenzaldehyde 23703-22-2, 1-Bromo-4-hexylbenzene
25006-17-1, 4-Hydroxy-3-methoxy-5-propylbenzaldehyde 35622-27-6,
4-Aminobutylphosphonic acid 36476-78-5,
3-Azetidinecarboxylic acid
                            38841-98-4, Octylmagnesium chloride
40499-83-0, 3-Pyrrolidinol 50773-56-3, 3-Benzyloxy-4-
hydroxybenzaldehyde 51572-88-4, 4-Formyl-2-hydroxybenzoic acid
54256-43-8, 4-Decylbenzoyl chloride 54963-70-1, 4-Nonylbenzoyl
chloride 56217-93-7, 5-(3-Aminopropyl)-1H-tetrazole
56962-11-9, 2-Chloro-4-hydroxybenzaldehyde 64283-87-0,
4-Iodobutylbenzene 65564-05-8, 3-Benzyloxycarbonylaminopropanal
65600-74-0, Ethyl diethoxymethylphosphinate 70547-87-4,
4-Hydroxy-2,6-dimethylbenzaldehyde 76542-24-0,
1-Bromo-4-nonylthiobenzene 87199-17-5, 4-Formylphenylboronic
     93102-05-7 103680-71-3 130592-02-8,
4-Amino-2,2-difluorobutanoic acid 148547-19-7, Methyl
4-bromo-3-methylbenzoate 569684-89-5, 4-Amino-3-fluorobutanoic
     569685-48-9 570424-08-7 570424-09-8
570424-10-1 570424-11-2 570424-12-3
571206-46-7, 4-Hydroxy-3-methoxy-5-propylthiobenzaldehyde
571206-48-9, 4-Nonylbenzyl iodide
RL: RCT (Reactant); RACT (Reactant or reagent)
   (preparation of amino functionalized organo phosphonates or organo
   carboxylates as S1P1/Edg1 receptor
   agonists)
1203-68-5P, [1,1'-Biphenyl]-2-carboxaldehyde 1204-60-0P,
[1,1'-Biphenyl]-3-carboxaldehyde 6853-57-2P 17012-21-4P
24076-33-3P 24083-12-3P, 3-Octyloxybenzaldehyde 24083-13-4P, 4-Octyloxybenzaldehyde 49763-67-9P 49763-69-1P 50262-46-9P
54784-14-4P 56308-79-3P 59378-87-9P, 3-Pyrrolidinecarboxylic
acid 60951-75-9P 61343-82-6P 62299-38-1P 70972-98-4P,
4-Nonylbenzaldehyde 70972-99-5P, 4-Decylbenzaldehyde
75472-36-5P 75677-08-6P 80407-63-2P 83697-65-8P
101385-93-7P 101500-22-5P 103057-44-9P 103680-62-2P
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ΤT

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570423-91-5P 570423-92-6P 570423-93-7P
570423-94-8P 570423-95-9P 570423-96-0P
570423-97-1P 570423-98-2P 570423-99-3P
570424-00-9P 570424-01-0P 570424-03-2P
570424-04-3P 570424-05-4P 570424-06-5P 570424-07-6P
571206-22-9P 571206-26-3P 571206-45-6P 571206-47-8P
571206-49-0P 571206-50-3P 571206-51-4P 571206-52-5P
571206-53-6P 571206-54-7P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP
(Preparation); RACT (Reactant or reagent)
   (preparation of amino functionalized organo phosphonates or organo
  carboxylates as S1P1/Edg1 receptor
  agonists)
```

SEARCH

L23

```
=> => d his 1119
    (FILE 'HCAPLUS' ENTERED AT 12:23:02 ON 27 JUL 2007)
            0 S L117 NOT L101
=> d que 1119
            424 SEA FILE=REGISTRY ABB=ON PLU=ON (100-83-4/BI OR
               101385-93-7/BI OR 101500-22-5/BI OR 103057-44-9/BI OR
               103680-62-2/BI OR 103680-71-3/BI OR 10521-91-2/BI OR
               106-41-2/BI OR 107-13-1/BI OR 108898-23-3/BI OR
                110943-74-3/BI OR 111-70-6/BI OR 111-86-4/BI OR
               1203-68-5/BI OR 1204-60-0/BI OR 121-32-4/BI OR
               121-33-5/BI OR 121118-78-3/BI OR 123-08-0/BI OR
               130592-02-8/BI OR 13138-33-5/BI OR 131888-48-7/BI OR
               13214-66-9/BI OR 13477-53-7/BI OR 13631-21-5/BI OR
               13880-74-5/BI OR 139-85-5/BI OR 143-16-8/BI OR
               146936-34-7/BI OR 148547-19-7/BI OR 149104-89-2/BI OR
               15174-69-3/BI OR 167279-18-7/BI OR 169806-13-7/BI OR
               17012-21-4/BI OR 18278-34-7/BI OR 188846-99-3/BI OR
               19463-48-0/BI OR 198959-37-4/BI OR 2052-07-5/BI OR
               208108-76-3/BI OR 2113-57-7/BI OR 2233-18-3/BI OR
               2314-36-5/BI OR 23703-22-2/BI OR 2374-05-2/BI OR
               24076-33-3/BI OR 24083-12-3/BI OR 24083-13-4/BI OR
                2420-16-8/BI OR 2439-54-5/BI OR 246847-91-6/BI OR
                2495-35-4/BI OR 25006-17-1/BI OR 256488-46-7/BI OR
                2973-76-4/BI OR 2973-77-5/BI OR 2973-78-6/BI OR
                3111-37-3/BI OR 3132-99-8/BI OR 3261-62-9/BI OR
                3300-51-4/BI OR 3453-33-6/BI OR 350-92-5/BI OR
                35622-27-6/BI OR 36476-78-5/BI OR 3761-92-0/BI OR
               38841-98-4/BI OR 3964-56-5/BI OR 401-95-6/BI OR
                40499-83-0/BI OR 4282-40-0/BI OR 4282-42-2/BI OR
                4282-44-4/BI OR 4815-96-7/BI OR 49763-67-9/BI OR
                49763-69-1/BI OR 500191-05-9/BI OR 50262-46-9/BI OR
               50773-56-3/BI OR 51572-88-4/BI OR 542-69-8/BI OR
                54256-43-8/BI OR 5438-36-8/BI OR 54784-14-4/BI OR
               54963-70-1/BI OR 556-18-3/BI OR 56-12-2/BI OR 56217-93-
               7/BI OR 56308-79-3/BI OR 56962-11-9/BI OR 569682-66-2/B
               I OR 569682-67-3/BI OR 569682-68-4/BI OR 569682-69-5/BI
                OR 569682-70-8/BI OR 569682-71-9/BI OR 569682-72-0/BI
                OR 569682-73-1/BI OR 569682-74-2/BI OR 569682-75-3/BI
               OR 569682-77-5/BI OR 569682-78-6/BI OR 569682-79-7/BI
               OR 569682-80-0/BI OR 569682-81-1/BI OR 569
            71 SEA FILE=REGISTRY ABB=ON PLU=ON L2 AND 1/NR AND 1/P
L3
               AND 1/N
T.4
           154 SEA FILE=REGISTRY ABB=ON PLU=ON L2 AND 1/P
            23 SEA FILE=REGISTRY ABB=ON PLU=ON L4 AND C4N/RF
L6
            36 SEA FILE=REGISTRY ABB=ON PLU=ON L2 AND C4S/RF
L8
L9
            67 SEA FILE=REGISTRY ABB=ON PLU=ON L2 AND C4N/RF
L10
             7 SEA FILE=REGISTRY ABB=ON PLU=ON L8 AND L9
             7 SEA FILE=REGISTRY ABB=ON PLU=ON L2 AND C2N2O/RF
L11
             1 SEA FILE=REGISTRY ABB=ON PLU=ON L10 AND L11
L12
T.13
            43 SEA FILE=REGISTRY ABB=ON PLU=ON L2 AND 3/F
L14
            36 SEA FILE=REGISTRY ABB=ON PLU=ON L13 AND L8
             7 SEA FILE=REGISTRY ABB=ON
L15
                                         PLU=ON L13 AND L10
L16
            12 SEA FILE=REGISTRY ABB=ON
                                         PLU=ON L2 AND C3N/RF
L17
             6 SEA FILE=REGISTRY ABB=ON PLU=ON L16 AND L8
             1 SEA FILE=REGISTRY ABB=ON PLU=ON L16 AND L11
L18
            40 SEA FILE=REGISTRY ABB=ON PLU=ON L9 AND C6/RF AND
L19
               2/NR
L20
             9 SEA FILE=REGISTRY ABB=ON PLU=ON L19 AND 4/O
L21
             1 SEA FILE=REGISTRY ABB=ON PLU=ON L20 AND C22 H33 N
L22
             2 SEA FILE=REGISTRY ABB=ON PLU=ON L9 AND 1/F
```

1 SEA FILE=REGISTRY ABB=ON PLU=ON L16 AND 2/NR AND 2/O

L24	22 SEA FILE=REGISTRY ABB=ON PLU=ON L9 AND 2/NR AND 2-3/O AND C6/RF
L25	11 SEA FILE=REGISTRY ABB=ON PLU=ON L24 AND 2/O
L26	2 SEA FILE=REGISTRY ABB=ON PLU=ON L25 AND 21/C
L27	4 SEA FILE=REGISTRY ABB=ON PLU=ON L24 AND 20/C AND 3/O
L28	6 SEA FILE=REGISTRY ABB=ON PLU=ON L2 AND 2/BR
L29	3 SEA FILE=REGISTRY ABB=ON PLU=ON L28 AND 2/NR
L30	6 SEA FILE=REGISTRY ABB=ON PLU=ON L9 AND 2/NR AND 5/O AND 1/P
L31	6 SEA FILE=REGISTRY ABB=ON PLU=ON L15 AND 4/NR
L32	5 SEA FILE=REGISTRY ABB=ON PLU=ON L31 AND 3/O
L33	27 SEA FILE=REGISTRY ABB=ON PLU=ON L3 AND 4/O
L34	10 SEA FILE=REGISTRY ABB=ON PLU=ON L2 AND ?NAPHTH?/CNS
L35	5 SEA FILE=REGISTRY ABB=ON PLU=ON L34 AND 20-30/C
L37	44 SEA FILE=REGISTRY ABB=ON PLU=ON L2 AND ?BIPHENYL?/CNS
L38	32 SEA FILE=REGISTRY ABB=ON PLU=ON L37 AND 20-100/C
L41	68 SEA FILE=REGISTRY ABB=ON PLU=ON L3 AND C6/RF
L42	68 SEA FILE=REGISTRY ABB=ON PLU=ON L41 AND 12-50/C
L43	157 SEA FILE=REGISTRY ABB=ON PLU=ON L6 OR (L10 OR L11 OR
H43	L12 OR L13 OR L14 OR L15 OR L16 OR L17 OR L18) OR (L19
	OR L20 OR L21 OR L22 OR L23 OR L24 OR L25 OR L26 OR
	L27 OR L28 OR L29 OR L30 OR L31 OR L32 OR L33) OR L35
	OR L38
L44	199 SEA FILE=REGISTRY ABB=ON PLU=ON (L41 OR L42 OR L43)
L48	QUE ABB=ON PLU=ON PY<2003 OR PRY<2003 OR AY<2003 OR
	MY<2003 OR REVIEW/DT
L50	QUE ABB=ON PLU=ON IMMUNOSUPPRES? OR IMMUNOREG? OR IM
	MUN?(A) (SUPPRESS? OR REG?)
L52	QUE ABB=ON PLU=ON IMMUNOSUPPRESSANTS+PFT,OLD,NT/CT
L53	QUE ABB=ON PLU=ON IMMUNOSUPPRESSION+PFT,OLD,NT/CT
L55	QUE ABB=ON PLU=ON ANTAGONISM+PFT,OLD,NT/CT
L57	QUE ABB=ON PLU=ON AGON? OR ANTAG?
L59	QUE ABB=ON PLU=ON EDG1(A)S1P?
L70	QUE ABB=ON PLU=ON "AUTOIMMUNE DISEASE"+PFT,OLD,NT/CT
L72	QUE ABB=ON PLU=ON INFLAMMATION+PFT,OLD,NT/CT
L74	
L76	
	-
L78	QUE ABB=ON PLU=ON ASTHMA+PFT,OLD,NT/CT
L80	QUE ABB=ON PLU=ON "RESPIRATORY SYSTEM, DISEASE"+PFT, OLD,NT/CT
L82	QUE ABB=ON PLU=ON ARTHRITIS+PFT,OLD,NT/CT
L84	QUE ABB=ON PLU=ON "MUSCULAR DYSTROPHY"+PFT,OLD,NT/CT
L86	QUE ABB=ON PLU=ON "SKIN, DISEASE"+PFT,OLD,NT/CT
L88	QUE ABB=ON PLU=ON DERMATITIS+PFT,OLD,NT/CT
L94	QUE ABB=ON PLU=ON NEOPLASM+PFT,OLD,NT/CT
L97	1272 SEA FILE=HCAPLUS ABB=ON PLU=ON ("DOHERTY, GEORGE
	A."/AU OR "FORREST, MICHAEL J."/AU OR "HAJDU, RICHARD"/
	AU OR "HALE, JEFFREY J."/AU OR "LI, ZHEN"/AU OR
	"MANDALA, SUZANNE M."/AU OR "MILLS, SANDER G."/AU OR
	"ROSEN, HUGH"/AU OR "SCOLNICK, EDWARD M."/AU)
т 0.0	
L98	QUE ABB=ON PLU=ON MERCK?/PA,CS,SO,CO
L99	714 SEA FILE=HCAPLUS ABB=ON PLU=ON L97 AND L48
L100	228 SEA FILE=HCAPLUS ABB=ON PLU=ON L99 AND L98
L101	26 SEA FILE=HCAPLUS ABB=ON PLU=ON L100 AND L50
L105	179 SEA FILE=REGISTRY ABB=ON PLU=ON L44 AND 18-70/C
L106	15 SEA FILE=HCAPLUS ABB=ON PLU=ON L105
L109	20 SEA FILE=REGISTRY ABB=ON PLU=ON L44 NOT L105
L110	1 SEA FILE=REGISTRY ABB=ON PLU=ON L109 AND C14 H24 N
	O4 P/MF
L111	1 SEA FILE=REGISTRY ABB=ON PLU=ON L109 AND C17 H29 BR
	N O5 P/MF
L112	181 SEA FILE=REGISTRY ABB=ON PLU=ON L105 OR L110 OR L111
	101 521 1188 NEOLOTAL TEDS OF THO-ON BIOS ON BITO ON BITT
L113	15 SEA FILE=HCAPLUS ABB=ON PLU=ON L112

```
T.114
            15 SEA FILE=HCAPLUS ABB=ON PLU=ON L106 OR L113
L115
             3 SEA FILE=HCAPLUS ABB=ON PLU=ON L114 AND L48
              3 SEA FILE=HCAPLUS ABB=ON PLU=ON L115 AND (L50 OR (L52
L116
                OR L53) OR L55 OR L57 OR L59 OR L70 OR L72 OR L74 OR
                L76 OR L78 OR L80)
              3 SEA FILE=HCAPLUS ABB=ON PLU=ON L116 AND (L82 OR L84
L117
                OR L86 OR L88 OR L94)
T.119
              O SEA FILE=HCAPLUS ABB=ON PLU=ON L117 NOT L101
=> d his 1121
     (FILE 'HCAPLUS' ENTERED AT 12:23:02 ON 27 JUL 2007)
L121
             0 S L120 NOT L101
=> d que 1121
            424 SEA FILE=REGISTRY ABB=ON PLU=ON (100-83-4/BI OR
L2
                101385-93-7/BI OR 101500-22-5/BI OR 103057-44-9/BI OR
                103680-62-2/BI OR 103680-71-3/BI OR 10521-91-2/BI OR
                106-41-2/BI OR 107-13-1/BI OR 108898-23-3/BI OR
                110943-74-3/BI OR 111-70-6/BI OR 111-86-4/BI OR
                1203-68-5/BI OR 1204-60-0/BI OR 121-32-4/BI OR
                121-33-5/BI OR 121118-78-3/BI OR 123-08-0/BI OR
                130592-02-8/BI OR 13138-33-5/BI OR 131888-48-7/BI OR
                13214-66-9/BI OR 13477-53-7/BI OR 13631-21-5/BI OR
                13880-74-5/BI OR 139-85-5/BI OR 143-16-8/BI OR
                146936-34-7/BI OR 148547-19-7/BI OR 149104-89-2/BI OR
                15174-69-3/BI OR 167279-18-7/BI OR 169806-13-7/BI OR
                17012-21-4/BI OR 18278-34-7/BI OR 188846-99-3/BI OR
                19463-48-0/BI OR 198959-37-4/BI OR 2052-07-5/BI OR
                208108-76-3/BI OR 2113-57-7/BI OR 2233-18-3/BI OR
                2314-36-5/BI OR 23703-22-2/BI OR 2374-05-2/BI OR
                24076-33-3/BI OR 24083-12-3/BI OR 24083-13-4/BI OR
                2420-16-8/BI OR 2439-54-5/BI OR 246847-91-6/BI OR
                2495-35-4/BI OR 25006-17-1/BI OR 256488-46-7/BI OR
                2973-76-4/BI OR 2973-77-5/BI OR 2973-78-6/BI OR
                3111-37-3/BI OR 3132-99-8/BI OR 3261-62-9/BI OR
                3300-51-4/BI OR 3453-33-6/BI OR 350-92-5/BI OR
                35622-27-6/BI OR 36476-78-5/BI OR 3761-92-0/BI OR
                38841-98-4/BI OR 3964-56-5/BI OR 401-95-6/BI OR
                40499-83-0/BI OR 4282-40-0/BI OR 4282-42-2/BI OR
                4282-44-4/BI OR 4815-96-7/BI OR 49763-67-9/BI OR
                49763-69-1/BI OR 500191-05-9/BI OR 50262-46-9/BI OR
                50773-56-3/BI OR 51572-88-4/BI OR 542-69-8/BI OR
                54256-43-8/BI OR 5438-36-8/BI OR 54784-14-4/BI OR
                54963-70-1/BI OR 556-18-3/BI OR 56-12-2/BI OR 56217-93-
                7/BI OR 56308-79-3/BI OR 56962-11-9/BI OR 569682-66-2/B
                I OR 569682-67-3/BI OR 569682-68-4/BI OR 569682-69-5/BI
                OR 569682-70-8/BI OR 569682-71-9/BI OR 569682-72-0/BI
                OR 569682-73-1/BI OR 569682-74-2/BI OR 569682-75-3/BI
                OR 569682-77-5/BI OR 569682-78-6/BI OR 569682-79-7/BI
                OR 569682-80-0/BI OR 569682-81-1/BI OR 569
L3
             71 SEA FILE=REGISTRY ABB=ON PLU=ON L2 AND 1/NR AND 1/P
               AND 1/N
           154 SEA FILE=REGISTRY ABB=ON PLU=ON L2 AND 1/P
L4
L6
            23 SEA FILE=REGISTRY ABB=ON PLU=ON L4 AND C4N/RF
            36 SEA FILE=REGISTRY ABB=ON PLU=ON L2 AND C4S/RF
L8
            67 SEA FILE=REGISTRY ABB=ON PLU=ON L2 AND C4N/RF
1.9
              7 SEA FILE=REGISTRY ABB=ON PLU=ON L8 AND L9
T<sub>1</sub>10
             7 SEA FILE=REGISTRY ABB=ON PLU=ON L2 AND C2N2O/RF
L11
L12
             1 SEA FILE=REGISTRY ABB=ON PLU=ON L10 AND L11
                                         PLU=ON L2 AND 3/F
L13
             43 SEA FILE=REGISTRY ABB=ON
             36 SEA FILE=REGISTRY ABB=ON PLU=ON L13 AND L8
L14
             7 SEA FILE=REGISTRY ABB=ON PLU=ON L13 AND L10
L15
            12 SEA FILE=REGISTRY ABB=ON PLU=ON L2 AND C3N/RF
L16
             6 SEA FILE=REGISTRY ABB=ON PLU=ON L16 AND L8
L17
             1 SEA FILE=REGISTRY ABB=ON PLU=ON L16 AND L11
L18
```

L19	40	SEA FILE=REGISTRY ABB=ON PLU=ON L9 AND C6/RF AND
		2/NR
L20	9	SEA FILE=REGISTRY ABB=ON PLU=ON L19 AND 4/O
L21	1	SEA FILE=REGISTRY ABB=ON PLU=ON L20 AND C22 H33 N
		O4/MF
L22	2	SEA FILE=REGISTRY ABB=ON PLU=ON L9 AND 1/F
L23	1	SEA FILE=REGISTRY ABB=ON PLU=ON L16 AND 2/NR AND 2/O
L24	22	SEA FILE=REGISTRY ABB=ON PLU=ON L9 AND 2/NR AND
		2-3/O AND C6/RF
L25	11	SEA FILE=REGISTRY ABB=ON PLU=ON L24 AND 2/O
L26	2	SEA FILE=REGISTRY ABB=ON PLU=ON L25 AND 21/C
L27	4	SEA FILE=REGISTRY ABB=ON PLU=ON L24 AND 20/C AND 3/O
T 00	_	CEN ELLE DECLERON ADD ON DIN ON 10 AND 0/DD
L28		SEA FILE=REGISTRY ABB=ON PLU=ON L2 AND 2/BR
L29		SEA FILE=REGISTRY ABB=ON PLU=ON L28 AND 2/NR
L30	6	SEA FILE=REGISTRY ABB=ON PLU=ON L9 AND 2/NR AND 5/O
- 04		AND 1/P
L31		SEA FILE=REGISTRY ABB=ON PLU=ON L15 AND 4/NR
L32		SEA FILE=REGISTRY ABB=ON PLU=ON L31 AND 3/O
L33		SEA FILE=REGISTRY ABB=ON PLU=ON L3 AND 4/O
L34		SEA FILE=REGISTRY ABB=ON PLU=ON L2 AND ?NAPHTH?/CNS
L35	5	SEA FILE=REGISTRY ABB=ON PLU=ON L34 AND 20-30/C
L37	44	SEA FILE=REGISTRY ABB=ON PLU=ON L2 AND ?BIPHENYL?/CNS
- 00		
L38		SEA FILE=REGISTRY ABB=ON PLU=ON L37 AND 20-100/C
L41		SEA FILE=REGISTRY ABB=ON PLU=ON L3 AND C6/RF
L42		SEA FILE=REGISTRY ABB=ON PLU=ON L41 AND 12-50/C
L43	157	SEA FILE=REGISTRY ABB=ON PLU=ON L6 OR (L10 OR L11 OR
		L12 OR L13 OR L14 OR L15 OR L16 OR L17 OR L18) OR (L19
		OR L20 OR L21 OR L22 OR L23 OR L24 OR L25 OR L26 OR
		L27 OR L28 OR L29 OR L30 OR L31 OR L32 OR L33) OR L35
		OR L38
L44		SEA FILE=REGISTRY ABB=ON PLU=ON (L41 OR L42 OR L43)
L45		SEA FILE=HCAPLUS ABB=ON PLU=ON L44
L45 L46	849	SEA FILE=HCAPLUS ABB=ON PLU=ON L44 QUE ABB=ON PLU=ON PHARMAC?/SC,SX
L45 L46 L47	849	SEA FILE=HCAPLUS ABB=ON PLU=ON L44 QUE ABB=ON PLU=ON PHARMAC?/SC,SX SEA FILE=HCAPLUS ABB=ON PLU=ON L45 AND L46
L45 L46	849	SEA FILE=HCAPLUS ABB=ON PLU=ON L44 QUE ABB=ON PLU=ON PHARMAC?/SC, SX SEA FILE=HCAPLUS ABB=ON PLU=ON L45 AND L46 QUE ABB=ON PLU=ON PY<2003 OR PRY<2003 OR AY<2003 OR
L45 L46 L47 L48	849 483	SEA FILE=HCAPLUS ABB=ON PLU=ON L44 QUE ABB=ON PLU=ON PHARMAC?/SC, SX SEA FILE=HCAPLUS ABB=ON PLU=ON L45 AND L46 QUE ABB=ON PLU=ON PY<2003 OR PRY<2003 OR AY<2003 OR MY<2003 OR REVIEW/DT
L45 L46 L47 L48	849 483	SEA FILE=HCAPLUS ABB=ON PLU=ON L44 QUE ABB=ON PLU=ON PHARMAC?/SC, SX SEA FILE=HCAPLUS ABB=ON PLU=ON L45 AND L46 QUE ABB=ON PLU=ON PY<2003 OR PRY<2003 OR AY<2003 OR MY<2003 OR REVIEW/DT SEA FILE=HCAPLUS ABB=ON PLU=ON L47 AND L48
L45 L46 L47 L48	849 483	SEA FILE=HCAPLUS ABB=ON PLU=ON L44 QUE ABB=ON PLU=ON PHARMAC?/SC,SX SEA FILE=HCAPLUS ABB=ON PLU=ON L45 AND L46 QUE ABB=ON PLU=ON PY<2003 OR PRY<2003 OR AY<2003 OR MY<2003 OR REVIEW/DT SEA FILE=HCAPLUS ABB=ON PLU=ON L47 AND L48 QUE ABB=ON PLU=ON IMMUNOSUPPRES? OR IMMUNOREG? OR IM
L45 L46 L47 L48 L49 L50	849 483 270	SEA FILE=HCAPLUS ABB=ON PLU=ON L44 QUE ABB=ON PLU=ON PHARMAC?/SC,SX SEA FILE=HCAPLUS ABB=ON PLU=ON L45 AND L46 QUE ABB=ON PLU=ON PY<2003 OR PRY<2003 OR AY<2003 OR MY<2003 OR REVIEW/DT SEA FILE=HCAPLUS ABB=ON PLU=ON L47 AND L48 QUE ABB=ON PLU=ON IMMUNOSUPPRES? OR IMMUNOREG? OR IMMUNO?(A) (SUPPRESS? OR REG?)
L45 L46 L47 L48 L49 L50	849 483 270 7	SEA FILE=HCAPLUS ABB=ON PLU=ON L44 QUE ABB=ON PLU=ON PHARMAC?/SC, SX SEA FILE=HCAPLUS ABB=ON PLU=ON L45 AND L46 QUE ABB=ON PLU=ON PY<2003 OR PRY<2003 OR AY<2003 OR MY<2003 OR REVIEW/DT SEA FILE=HCAPLUS ABB=ON PLU=ON L47 AND L48 QUE ABB=ON PLU=ON IMMUNOSUPPRES? OR IMMUNOREG? OR IM MUN?(A) (SUPPRESS? OR REG?) SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L50
L45 L46 L47 L48 L49 L50	849 483 270 7 19	SEA FILE=HCAPLUS ABB=ON PLU=ON L44 QUE ABB=ON PLU=ON PHARMAC?/SC,SX SEA FILE=HCAPLUS ABB=ON PLU=ON L45 AND L46 QUE ABB=ON PLU=ON PY<2003 OR PRY<2003 OR AY<2003 OR MY<2003 OR REVIEW/DT SEA FILE=HCAPLUS ABB=ON PLU=ON L47 AND L48 QUE ABB=ON PLU=ON IMMUNOSUPPRES? OR IMMUNOREG? OR IM MUN?(A) (SUPPRESS? OR REG?) SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L50 SEA FILE=HCAPLUS ABB=ON PLU=ON EDG1(A)S1P?
L45 L46 L47 L48 L49 L50 L51 L60 L61	849 483 270 7 19	SEA FILE=HCAPLUS ABB=ON PLU=ON L44 QUE ABB=ON PLU=ON PHARMAC?/SC, SX SEA FILE=HCAPLUS ABB=ON PLU=ON L45 AND L46 QUE ABB=ON PLU=ON PY<2003 OR PRY<2003 OR AY<2003 OR MY<2003 OR REVIEW/DT SEA FILE=HCAPLUS ABB=ON PLU=ON L47 AND L48 QUE ABB=ON PLU=ON IMMUNOSUPPRES? OR IMMUNOREG? OR IM MUN?(A) (SUPPRESS? OR REG?) SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L50 SEA FILE=HCAPLUS ABB=ON PLU=ON EDG1(A)S1P? SEA FILE=HCAPLUS ABB=ON PLU=ON L60 AND L49
L45 L46 L47 L48 L49 L50 L51 L60 L61 L68	849 483 270 7 19 2	SEA FILE=HCAPLUS ABB=ON PLU=ON L44 QUE ABB=ON PLU=ON PHARMAC?/SC, SX SEA FILE=HCAPLUS ABB=ON PLU=ON L45 AND L46 QUE ABB=ON PLU=ON PY<2003 OR PRY<2003 OR AY<2003 OR MY<2003 OR REVIEW/DT SEA FILE=HCAPLUS ABB=ON PLU=ON L47 AND L48 QUE ABB=ON PLU=ON IMMUNOSUPPRES? OR IMMUNOREG? OR IM MUN?(A) (SUPPRESS? OR REG?) SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L50 SEA FILE=HCAPLUS ABB=ON PLU=ON EDG1(A)S1P? SEA FILE=HCAPLUS ABB=ON PLU=ON L60 AND L49 QUE ABB=ON PLU=ON AUTOIMMUN?
L45 L46 L47 L48 L49 L50 L51 L60 L61 L68 L69	849 483 270 7 19 2	SEA FILE=HCAPLUS ABB=ON PLU=ON L44 QUE ABB=ON PLU=ON PHARMAC?/SC, SX SEA FILE=HCAPLUS ABB=ON PLU=ON L45 AND L46 QUE ABB=ON PLU=ON PY<2003 OR PRY<2003 OR AY<2003 OR MY<2003 OR REVIEW/DT SEA FILE=HCAPLUS ABB=ON PLU=ON L47 AND L48 QUE ABB=ON PLU=ON IMMUNOSUPPRES? OR IMMUNOREG? OR IM MUN?(A) (SUPPRESS? OR REG?) SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L50 SEA FILE=HCAPLUS ABB=ON PLU=ON EDG1(A)S1P? SEA FILE=HCAPLUS ABB=ON PLU=ON L60 AND L49 QUE ABB=ON PLU=ON AUTOIMMUN? SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L68
L45 L46 L47 L48 L49 L50 L51 L60 L61 L68 L69 L70	849 483 270 7 19 2	SEA FILE=HCAPLUS ABB=ON PLU=ON L44 QUE ABB=ON PLU=ON PHARMAC?/SC, SX SEA FILE=HCAPLUS ABB=ON PLU=ON L45 AND L46 QUE ABB=ON PLU=ON PY<2003 OR PRY<2003 OR AY<2003 OR MY<2003 OR REVIEW/DT SEA FILE=HCAPLUS ABB=ON PLU=ON L47 AND L48 QUE ABB=ON PLU=ON IMMUNOSUPPRES? OR IMMUNOREG? OR IM MUN?(A) (SUPPRESS? OR REG?) SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L50 SEA FILE=HCAPLUS ABB=ON PLU=ON EDG1(A)S1P? SEA FILE=HCAPLUS ABB=ON PLU=ON L60 AND L49 QUE ABB=ON PLU=ON AUTOIMMUN? SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L68 QUE ABB=ON PLU=ON "AUTOIMMUNE DISEASE"+PFT,OLD,NT/CT
L45 L46 L47 L48 L49 L50 L51 L60 L61 L68 L69 L70 L71	849 483 270 7 19 2	SEA FILE=HCAPLUS ABB=ON PLU=ON L44 QUE ABB=ON PLU=ON PHARMAC?/SC, SX SEA FILE=HCAPLUS ABB=ON PLU=ON L45 AND L46 QUE ABB=ON PLU=ON PY<2003 OR PRY<2003 OR AY<2003 OR MY<2003 OR REVIEW/DT SEA FILE=HCAPLUS ABB=ON PLU=ON L47 AND L48 QUE ABB=ON PLU=ON IMMUNOSUPPRES? OR IMMUNOREG? OR IM MUN?(A) (SUPPRESS? OR REG?) SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L50 SEA FILE=HCAPLUS ABB=ON PLU=ON EDG1(A)S1P? SEA FILE=HCAPLUS ABB=ON PLU=ON L60 AND L49 QUE ABB=ON PLU=ON AUTOIMMUN? SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L68 QUE ABB=ON PLU=ON "AUTOIMMUNE DISEASE"+PFT,OLD,NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L70
L45 L46 L47 L48 L49 L50 L51 L60 L61 L68 L69 L70 L71 L72	849 483 270 7 19 2 21 32	SEA FILE=HCAPLUS ABB=ON PLU=ON L44 QUE ABB=ON PLU=ON PHARMAC?/SC, SX SEA FILE=HCAPLUS ABB=ON PLU=ON L45 AND L46 QUE ABB=ON PLU=ON PY<2003 OR PRY<2003 OR AY<2003 OR MY<2003 OR REVIEW/DT SEA FILE=HCAPLUS ABB=ON PLU=ON L47 AND L48 QUE ABB=ON PLU=ON IMMUNOSUPPRES? OR IMMUNOREG? OR IM MUN?(A) (SUPPRESS? OR REG?) SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L50 SEA FILE=HCAPLUS ABB=ON PLU=ON EDG1(A)S1P? SEA FILE=HCAPLUS ABB=ON PLU=ON L60 AND L49 QUE ABB=ON PLU=ON AUTOIMMUN? SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L68 QUE ABB=ON PLU=ON "AUTOIMMUNE DISEASE"+PFT,OLD,NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L70 QUE ABB=ON PLU=ON INFLAMMATION+PFT,OLD,NT/CT
L45 L46 L47 L48 L49 L50 L51 L60 L61 L68 L69 L70 L71 L72 L73	849 483 270 7 19 2 21 32	SEA FILE=HCAPLUS ABB=ON PLU=ON L44 QUE ABB=ON PLU=ON PHARMAC?/SC, SX SEA FILE=HCAPLUS ABB=ON PLU=ON L45 AND L46 QUE ABB=ON PLU=ON PY<2003 OR PRY<2003 OR AY<2003 OR MY<2003 OR REVIEW/DT SEA FILE=HCAPLUS ABB=ON PLU=ON L47 AND L48 QUE ABB=ON PLU=ON IMMUNOSUPPRES? OR IMMUNOREG? OR IM MUN?(A) (SUPPRESS? OR REG?) SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L50 SEA FILE=HCAPLUS ABB=ON PLU=ON EDG1(A)S1P? SEA FILE=HCAPLUS ABB=ON PLU=ON L60 AND L49 QUE ABB=ON PLU=ON AUTOIMMUN? SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L68 QUE ABB=ON PLU=ON "AUTOIMMUNE DISEASE"+PFT,OLD,NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L70 QUE ABB=ON PLU=ON INFLAMMATION+PFT,OLD,NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L72
L45 L46 L47 L48 L49 L50 L51 L60 L61 L68 L69 L70 L71 L72 L73 L74	849 483 270 7 19 2 21 32 41	SEA FILE=HCAPLUS ABB=ON PLU=ON L44 QUE ABB=ON PLU=ON PHARMAC?/SC, SX SEA FILE=HCAPLUS ABB=ON PLU=ON L45 AND L46 QUE ABB=ON PLU=ON PY<2003 OR PRY<2003 OR AY<2003 OR MY<2003 OR REVIEW/DT SEA FILE=HCAPLUS ABB=ON PLU=ON L47 AND L48 QUE ABB=ON PLU=ON IMMUNOSUPPRES? OR IMMUNOREG? OR IM MUN?(A) (SUPPRESS? OR REG?) SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L50 SEA FILE=HCAPLUS ABB=ON PLU=ON EDG1(A)S1P? SEA FILE=HCAPLUS ABB=ON PLU=ON L60 AND L49 QUE ABB=ON PLU=ON AUTOIMMUN? SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L68 QUE ABB=ON PLU=ON "AUTOIMMUNE DISEASE"+PFT,OLD,NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L70 QUE ABB=ON PLU=ON INFLAMMATION+PFT,OLD,NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L72 QUE ABB=ON PLU=ON INFLORMATION+PFT,OLD,NT/CT
L45 L46 L47 L48 L49 L50 L51 L60 L61 L68 L69 L70 L71 L72 L73 L74 L75	849 483 270 7 19 2 21 32 41	SEA FILE=HCAPLUS ABB=ON PLU=ON L44 QUE ABB=ON PLU=ON PHARMAC?/SC, SX SEA FILE=HCAPLUS ABB=ON PLU=ON L45 AND L46 QUE ABB=ON PLU=ON PY<2003 OR PRY<2003 OR AY<2003 OR MY<2003 OR REVIEW/DT SEA FILE=HCAPLUS ABB=ON PLU=ON L47 AND L48 QUE ABB=ON PLU=ON IMMUNOSUPPRES? OR IMMUNOREG? OR IM MUN?(A) (SUPPRESS? OR REG?) SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L50 SEA FILE=HCAPLUS ABB=ON PLU=ON EDG1(A)S1P? SEA FILE=HCAPLUS ABB=ON PLU=ON L60 AND L49 QUE ABB=ON PLU=ON AUTOIMMUN? SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L68 QUE ABB=ON PLU=ON "AUTOIMMUNE DISEASE"+PFT, OLD, NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L70 QUE ABB=ON PLU=ON INFLAMMATION+PFT, OLD, NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L72 QUE ABB=ON PLU=ON INFECTION+PFT, OLD, NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L72 QUE ABB=ON PLU=ON INFECTION+PFT, OLD, NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L72
L45 L46 L47 L48 L49 L50 L51 L60 L61 L68 L69 L70 L71 L72 L73 L74 L75 L76	849 483 270 7 19 2 21 32 41 15	SEA FILE=HCAPLUS ABB=ON PLU=ON L44 QUE ABB=ON PLU=ON PHARMAC?/SC, SX SEA FILE=HCAPLUS ABB=ON PLU=ON L45 AND L46 QUE ABB=ON PLU=ON PY<2003 OR PRY<2003 OR AY<2003 OR MY<2003 OR REVIEW/DT SEA FILE=HCAPLUS ABB=ON PLU=ON L47 AND L48 QUE ABB=ON PLU=ON IMMUNOSUPPRES? OR IMMUNOREG? OR IM MUN?(A) (SUPPRESS? OR REG?) SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L50 SEA FILE=HCAPLUS ABB=ON PLU=ON EDG1(A)S1P? SEA FILE=HCAPLUS ABB=ON PLU=ON L60 AND L49 QUE ABB=ON PLU=ON AUTOIMMUN? SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L68 QUE ABB=ON PLU=ON "AUTOIMMUNE DISEASE"+PFT, OLD, NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L70 QUE ABB=ON PLU=ON INFLAMMATION+PFT, OLD, NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L72 QUE ABB=ON PLU=ON INFECTION+PFT, OLD, NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L72 QUE ABB=ON PLU=ON INFECTION+PFT, OLD, NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L74 QUE ABB=ON PLU=ON INFECTION+PFT, OLD, NT/CT
L45 L46 L47 L48 L49 L50 L51 L60 L61 L68 L69 L70 L71 L72 L73 L74 L75 L76 L77	849 483 270 7 19 2 21 32 41 15	SEA FILE=HCAPLUS ABB=ON PLU=ON L44 QUE ABB=ON PLU=ON PHARMAC?/SC, SX SEA FILE=HCAPLUS ABB=ON PLU=ON L45 AND L46 QUE ABB=ON PLU=ON PY<2003 OR PRY<2003 OR AY<2003 OR MY<2003 OR REVIEW/DT SEA FILE=HCAPLUS ABB=ON PLU=ON L47 AND L48 QUE ABB=ON PLU=ON IMMUNOSUPPRES? OR IMMUNOREG? OR IM MUN?(A) (SUPPRESS? OR REG?) SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L50 SEA FILE=HCAPLUS ABB=ON PLU=ON EDG1(A)S1P? SEA FILE=HCAPLUS ABB=ON PLU=ON L60 AND L49 QUE ABB=ON PLU=ON AUTOIMMUN? SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L68 QUE ABB=ON PLU=ON "AUTOIMMUNE DISEASE"+PFT, OLD, NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L70 QUE ABB=ON PLU=ON INFLAMMATION+PFT, OLD, NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L72 QUE ABB=ON PLU=ON INFECTION+PFT, OLD, NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L74 QUE ABB=ON PLU=ON AIDS+PFT, OLD, NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L74 QUE ABB=ON PLU=ON AIDS+PFT, OLD, NT/CT
L45 L46 L47 L48 L49 L50 L51 L60 L61 L68 L69 L70 L71 L72 L73 L74 L75 L76 L77 L78	849 483 270 7 19 2 21 32 41 15	SEA FILE=HCAPLUS ABB=ON PLU=ON L44 QUE ABB=ON PLU=ON PHARMAC?/SC, SX SEA FILE=HCAPLUS ABB=ON PLU=ON L45 AND L46 QUE ABB=ON PLU=ON PY<2003 OR PRY<2003 OR AY<2003 OR MY<2003 OR REVIEW/DT SEA FILE=HCAPLUS ABB=ON PLU=ON L47 AND L48 QUE ABB=ON PLU=ON IMMUNOSUPPRES? OR IMMUNOREG? OR IM MUN?(A) (SUPPRESS? OR REG?) SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L50 SEA FILE=HCAPLUS ABB=ON PLU=ON EDG1(A)S1P? SEA FILE=HCAPLUS ABB=ON PLU=ON L60 AND L49 QUE ABB=ON PLU=ON AUTOIMMUN? SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L68 QUE ABB=ON PLU=ON "AUTOIMMUNE DISEASE"+PFT, OLD, NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L70 QUE ABB=ON PLU=ON INFLAMMATION+PFT, OLD, NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L72 QUE ABB=ON PLU=ON INFECTION+PFT, OLD, NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L74 QUE ABB=ON PLU=ON AIDS+PFT, OLD, NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L74 QUE ABB=ON PLU=ON AIDS+PFT, OLD, NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L76 QUE ABB=ON PLU=ON AIDS+PFT, OLD, NT/CT
L45 L46 L47 L48 L49 L50 L51 L60 L61 L68 L69 L70 L71 L72 L73 L74 L75 L76 L77 L78 L79	849 483 270 7 19 2 21 32 41 15	SEA FILE=HCAPLUS ABB=ON PLU=ON L44 QUE ABB=ON PLU=ON PHARMAC?/SC, SX SEA FILE=HCAPLUS ABB=ON PLU=ON L45 AND L46 QUE ABB=ON PLU=ON PY<2003 OR PRY<2003 OR AY<2003 OR MY<2003 OR REVIEW/DT SEA FILE=HCAPLUS ABB=ON PLU=ON L47 AND L48 QUE ABB=ON PLU=ON IMMUNOSUPPRES? OR IMMUNOREG? OR IM MUN?(A) (SUPPRESS? OR REG?) SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L50 SEA FILE=HCAPLUS ABB=ON PLU=ON EDG1(A)S1P? SEA FILE=HCAPLUS ABB=ON PLU=ON L60 AND L49 QUE ABB=ON PLU=ON AUTOIMMUN? SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L68 QUE ABB=ON PLU=ON "AUTOIMMUNE DISEASE"+PFT,OLD,NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L70 QUE ABB=ON PLU=ON INFLAMMATION+PFT,OLD,NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L72 QUE ABB=ON PLU=ON INFECTION+PFT,OLD,NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L74 QUE ABB=ON PLU=ON AIDS+PFT,OLD,NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L76 QUE ABB=ON PLU=ON AIDS+PFT,OLD,NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L76 QUE ABB=ON PLU=ON AIDS+PFT,OLD,NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L76 QUE ABB=ON PLU=ON AIDS+PFT,OLD,NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L76 QUE ABB=ON PLU=ON ASTHMA+PFT,OLD,NT/CT
L45 L46 L47 L48 L49 L50 L51 L60 L61 L68 L69 L70 L71 L72 L73 L74 L75 L76 L77 L78	849 483 270 7 19 2 21 32 41 15	SEA FILE=HCAPLUS ABB=ON PLU=ON L44 QUE ABB=ON PLU=ON PHARMAC?/SC, SX SEA FILE=HCAPLUS ABB=ON PLU=ON L45 AND L46 QUE ABB=ON PLU=ON PY<2003 OR PRY<2003 OR AY<2003 OR MY<2003 OR REVIEW/DT SEA FILE=HCAPLUS ABB=ON PLU=ON L47 AND L48 QUE ABB=ON PLU=ON IMMUNOSUPPRES? OR IMMUNOREG? OR IM MUN?(A) (SUPPRESS? OR REG?) SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L50 SEA FILE=HCAPLUS ABB=ON PLU=ON L60 AND L49 QUE ABB=ON PLU=ON AUTOIMMUN? SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L68 QUE ABB=ON PLU=ON "AUTOIMMUNE DISEASE"+PFT, OLD, NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L70 QUE ABB=ON PLU=ON INFLAMMATION+PFT, OLD, NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L72 QUE ABB=ON PLU=ON INFECTION+PFT, OLD, NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L74 QUE ABB=ON PLU=ON AIDS+PFT, OLD, NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L74 QUE ABB=ON PLU=ON AIDS+PFT, OLD, NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L76 QUE ABB=ON PLU=ON AIDS+PFT, OLD, NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L76 QUE ABB=ON PLU=ON ASTHMA+PFT, OLD, NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L76 QUE ABB=ON PLU=ON ASTHMA+PFT, OLD, NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L76 QUE ABB=ON PLU=ON ASTHMA+PFT, OLD, NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L78 QUE ABB=ON PLU=ON ASTHMA+PFT, OLD, NT/CT
L45 L46 L47 L48 L49 L50 L51 L60 L61 L68 L69 L70 L71 L72 L73 L74 L75 L76 L77 L78 L79 L80	849 483 270 7 19 2 21 32 41 15 7	SEA FILE=HCAPLUS ABB=ON PLU=ON L44 QUE ABB=ON PLU=ON PHARMAC?/SC, SX SEA FILE=HCAPLUS ABB=ON PLU=ON L45 AND L46 QUE ABB=ON PLU=ON PY<2003 OR PRY<2003 OR AY<2003 OR MY<2003 OR REVIEW/DT SEA FILE=HCAPLUS ABB=ON PLU=ON L47 AND L48 QUE ABB=ON PLU=ON IMMUNOSUPPRES? OR IMMUNOREG? OR IM MUN?(A) (SUPPRESS? OR REG?) SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L50 SEA FILE=HCAPLUS ABB=ON PLU=ON EDG1(A)S1P? SEA FILE=HCAPLUS ABB=ON PLU=ON L60 AND L49 QUE ABB=ON PLU=ON AUTOIMMUN? SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L68 QUE ABB=ON PLU=ON "AUTOIMMUNE DISEASE"+PFT, OLD, NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L70 QUE ABB=ON PLU=ON INFLAMMATION+PFT, OLD, NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L72 QUE ABB=ON PLU=ON INFECTION+PFT, OLD, NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L74 QUE ABB=ON PLU=ON AIDS+PFT, OLD, NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L76 QUE ABB=ON PLU=ON ASTHMA+PFT, OLD, NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L76 QUE ABB=ON PLU=ON ASTHMA+PFT, OLD, NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L78 QUE ABB=ON PLU=ON "RESPIRATORY SYSTEM, DISEASE"+PFT, OLD, NT/CT
L45 L46 L47 L48 L49 L50 L51 L60 L61 L68 L69 L70 L71 L72 L73 L74 L75 L76 L77 L78 L79 L80 L81	849 483 270 7 19 2 21 32 41 15 7	SEA FILE=HCAPLUS ABB=ON PLU=ON L44 QUE ABB=ON PLU=ON PHARMAC?/SC,SX SEA FILE=HCAPLUS ABB=ON PLU=ON L45 AND L46 QUE ABB=ON PLU=ON PY<2003 OR PRY<2003 OR AY<2003 OR
L45 L46 L47 L48 L49 L50 L51 L60 L61 L68 L69 L70 L71 L72 L73 L74 L75 L76 L77 L78 L79 L80 L81 L82	849 483 270 7 19 2 21 32 41 15 7 16	SEA FILE=HCAPLUS ABB=ON PLU=ON L44 QUE ABB=ON PLU=ON PHARMAC?/SC,SX SEA FILE=HCAPLUS ABB=ON PLU=ON L45 AND L46 QUE ABB=ON PLU=ON PY<2003 OR PRY<2003 OR AY<2003 OR MY<2003 OR REVIEW/DT SEA FILE=HCAPLUS ABB=ON PLU=ON L47 AND L48 QUE ABB=ON PLU=ON IMMUNOSUPPRES? OR IMMUNOREG? OR IM MUN?(A) (SUPPRESS? OR REG?) SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L50 SEA FILE=HCAPLUS ABB=ON PLU=ON EDG1(A)S1P? SEA FILE=HCAPLUS ABB=ON PLU=ON L60 AND L49 QUE ABB=ON PLU=ON AUTOIMMUN? SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L68 QUE ABB=ON PLU=ON "AUTOIMMUNE DISEASE"+PFT,OLD,NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L70 QUE ABB=ON PLU=ON INFLAMMATION+PFT,OLD,NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L72 QUE ABB=ON PLU=ON INFECTION+PFT,OLD,NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L74 QUE ABB=ON PLU=ON AIDS+PFT,OLD,NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L76 QUE ABB=ON PLU=ON AIDS+PFT,OLD,NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L76 QUE ABB=ON PLU=ON ASTHMA+PFT,OLD,NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L76 QUE ABB=ON PLU=ON ASTHMA+PFT,OLD,NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L78 QUE ABB=ON PLU=ON "RESPIRATORY SYSTEM, DISEASE"+PFT,OLD,NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L78 QUE ABB=ON PLU=ON "RESPIRATORY SYSTEM, DISEASE"+PFT,OLD,NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L78 QUE ABB=ON PLU=ON "RESPIRATORY SYSTEM, DISEASE"+PFT,OLD,NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L78 QUE ABB=ON PLU=ON "RESPIRATORY SYSTEM, DISEASE"+PFT,OLD,NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L78 QUE ABB=ON PLU=ON "RESPIRATORY SYSTEM, DISEASE"+PFT,OLD,NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L80 QUE ABB=ON PLU=ON ARTHRITIS+PFT,OLD,NT/CT
L45 L46 L47 L48 L49 L50 L51 L60 L61 L68 L69 L70 L71 L72 L73 L74 L75 L76 L77 L78 L79 L80 L81 L82 L83	849 483 270 7 19 2 21 32 41 15 7 16	SEA FILE=HCAPLUS ABB=ON PLU=ON L44 QUE ABB=ON PLU=ON PHARMAC?/SC,SX SEA FILE=HCAPLUS ABB=ON PLU=ON L45 AND L46 QUE ABB=ON PLU=ON PY<2003 OR PRY<2003 OR AY<2003 OR MY<2003 OR REVIEW/DT SEA FILE=HCAPLUS ABB=ON PLU=ON L47 AND L48 QUE ABB=ON PLU=ON IMMUNOSUPPRES? OR IMMUNOREG? OR IM MUN?(A) (SUPPRESS? OR REG?) SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L50 SEA FILE=HCAPLUS ABB=ON PLU=ON EDGI(A)S1P? SEA FILE=HCAPLUS ABB=ON PLU=ON L60 AND L49 QUE ABB=ON PLU=ON AUTOIMMUN? SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L68 QUE ABB=ON PLU=ON "AUTOIMMUNE DISEASE"+PFT,OLD,NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L70 QUE ABB=ON PLU=ON INFLAMMATION+PFT,OLD,NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L72 QUE ABB=ON PLU=ON INFECTION+PFT,OLD,NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L74 QUE ABB=ON PLU=ON AIDS+PFT,OLD,NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L76 QUE ABB=ON PLU=ON ASTHMA+PFT,OLD,NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L76 QUE ABB=ON PLU=ON ASTHMA+PFT,OLD,NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L76 QUE ABB=ON PLU=ON ASTHMA+PFT,OLD,NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L76 QUE ABB=ON PLU=ON "RESPIRATORY SYSTEM, DISEASE"+PFT,OLD,NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L78 QUE ABB=ON PLU=ON "RESPIRATORY SYSTEM, DISEASE"+PFT,OLD,NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L78 QUE ABB=ON PLU=ON ARTHRITIS+PFT,OLD,NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L80 QUE ABB=ON PLU=ON ARTHRITIS+PFT,OLD,NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L80 QUE ABB=ON PLU=ON ARTHRITIS+PFT,OLD,NT/CT
L45 L46 L47 L48 L49 L50 L51 L60 L61 L68 L69 L70 L71 L72 L73 L74 L75 L76 L77 L78 L79 L80 L81 L82 L83 L84	849 483 270 7 19 2 21 32 41 15 7 16	SEA FILE=HCAPLUS ABB=ON PLU=ON L44 QUE ABB=ON PLU=ON PHARMAC?/SC, SX SEA FILE=HCAPLUS ABB=ON PLU=ON L45 AND L46 QUE ABB=ON PLU=ON PY<2003 OR PRY<2003 OR AY<2003 OR MY<2003 OR REVIEW/DT SEA FILE=HCAPLUS ABB=ON PLU=ON L47 AND L48 QUE ABB=ON PLU=ON IMMUNOSUPPRES? OR IMMUNOREG? OR IM MUN? (A) (SUPPRESS? OR REG?) SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L50 SEA FILE=HCAPLUS ABB=ON PLU=ON EDG1 (A) S1P? SEA FILE=HCAPLUS ABB=ON PLU=ON L60 AND L49 QUE ABB=ON PLU=ON AUTOIMMUN? SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L68 QUE ABB=ON PLU=ON "AUTOIMMUNE DISEASE"+PFT, OLD, NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L70 QUE ABB=ON PLU=ON INFLAMMATION+PFT, OLD, NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L72 QUE ABB=ON PLU=ON INFECTION+PFT, OLD, NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L74 QUE ABB=ON PLU=ON AIDS+PFT, OLD, NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L76 QUE ABB=ON PLU=ON ASTHMA+PFT, OLD, NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L78 QUE ABB=ON PLU=ON "RESPIRATORY SYSTEM, DISEASE"+PFT, OLD, NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L80 QUE ABB=ON PLU=ON ARTHRITIS+PFT, OLD, NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L80 QUE ABB=ON PLU=ON ARTHRITIS+PFT, OLD, NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L80 QUE ABB=ON PLU=ON ARTHRITIS+PFT, OLD, NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L80 QUE ABB=ON PLU=ON ARTHRITIS+PFT, OLD, NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L80 QUE ABB=ON PLU=ON ARTHRITIS+PFT, OLD, NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L80 QUE ABB=ON PLU=ON ARTHRITIS+PFT, OLD, NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L80 QUE ABB=ON PLU=ON ARTHRITIS+PFT, OLD, NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L82 QUE ABB=ON PLU=ON "MUSCULAR DYSTROPHY"+PFT, OLD, NT/CT
L45 L46 L47 L48 L49 L50 L51 L60 L61 L68 L69 L70 L71 L72 L73 L74 L75 L76 L77 L78 L79 L80 L81 L82 L83 L84 L85	849 483 270 7 19 2 21 32 41 15 7 16	SEA FILE=HCAPLUS ABB=ON PLU=ON L44 QUE ABB=ON PLU=ON PHARMAC?/SC, SX SEA FILE=HCAPLUS ABB=ON PLU=ON L45 AND L46 QUE ABB=ON PLU=ON PY<2003 OR PRY<2003 OR AY<2003 OR MY<2003 OR REVIEW/DT SEA FILE=HCAPLUS ABB=ON PLU=ON L47 AND L48 QUE ABB=ON PLU=ON IMMUNOSUPPRES? OR IMMUNOREG? OR IM MUN?(A) (SUPPRESS? OR REG?) SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L50 SEA FILE=HCAPLUS ABB=ON PLU=ON L60 AND L49 QUE ABB=ON PLU=ON AUTOIMMUN? SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L68 QUE ABB=ON PLU=ON "AUTOIMMUNE DISEASE"+PFT, OLD, NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L70 QUE ABB=ON PLU=ON INFLAMMATION+PFT, OLD, NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L72 QUE ABB=ON PLU=ON INFECTION+PFT, OLD, NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L74 QUE ABB=ON PLU=ON AIDS+PFT, OLD, NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L76 QUE ABB=ON PLU=ON ASTHMA+PFT, OLD, NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L76 QUE ABB=ON PLU=ON ASTHMA+PFT, OLD, NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L76 QUE ABB=ON PLU=ON ASTHMA+PFT, OLD, NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L78 QUE ABB=ON PLU=ON ASTHMA+PFT, OLD, NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L80 QUE ABB=ON PLU=ON ARTHRITIS+PFT, OLD, NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L80 QUE ABB=ON PLU=ON ARTHRITIS+PFT, OLD, NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L80 QUE ABB=ON PLU=ON ARTHRITIS+PFT, OLD, NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L82 QUE ABB=ON PLU=ON "MUSCULAR DYSTROPHY"+PFT, OLD, NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L82 QUE ABB=ON PLU=ON "MUSCULAR DYSTROPHY"+PFT, OLD, NT/CT
L45 L46 L47 L48 L49 L50 L51 L60 L61 L68 L69 L70 L71 L72 L73 L74 L75 L76 L77 L78 L79 L80 L81 L82 L83 L84 L85 L86	849 483 270 7 19 2 21 32 41 15 7 16 29 22 3	SEA FILE=HCAPLUS ABB=ON PLU=ON L44 QUE ABB=ON PLU=ON PHARMAC?/SC, SX SEA FILE=HCAPLUS ABB=ON PLU=ON L45 AND L46 QUE ABB=ON PLU=ON PY<2003 OR PRY<2003 OR AY<2003 OR MY<2003 OR REVIEW/DT SEA FILE=HCAPLUS ABB=ON PLU=ON L47 AND L48 QUE ABB=ON PLU=ON IMMUNOSUPPRES? OR IMMUNOREG? OR IM MUN?(A) (SUPPRESS? OR REG?) SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L50 SEA FILE=HCAPLUS ABB=ON PLU=ON EDG1(A)S1P? SEA FILE=HCAPLUS ABB=ON PLU=ON L60 AND L49 QUE ABB=ON PLU=ON AUTOIMMUN? SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L68 QUE ABB=ON PLU=ON "AUTOIMMUNE DISEASE"+PFT,OLD,NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L70 QUE ABB=ON PLU=ON INFLAMMATION+PFT,OLD,NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L72 QUE ABB=ON PLU=ON INFECTION+PFT,OLD,NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L74 QUE ABB=ON PLU=ON AIDS+PFT,OLD,NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L76 QUE ABB=ON PLU=ON ASTHMA+PFT,OLD,NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L76 QUE ABB=ON PLU=ON ASTHMA+PFT,OLD,NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L76 QUE ABB=ON PLU=ON ASTHMA+PFT,OLD,NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L80 QUE ABB=ON PLU=ON ARTHRITIS+PFT,OLD,NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L80 QUE ABB=ON PLU=ON ARTHRITIS+PFT,OLD,NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L80 QUE ABB=ON PLU=ON "MUSCULAR DYSTROPHY"+PFT,OLD,NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L82 QUE ABB=ON PLU=ON "MUSCULAR DYSTROPHY"+PFT,OLD,NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L82 QUE ABB=ON PLU=ON "MUSCULAR DYSTROPHY"+PFT,OLD,NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L84 QUE ABB=ON PLU=ON "MUSCULAR DYSTROPHY"+PFT,OLD,NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L84 QUE ABB=ON PLU=ON "MUSCULAR DYSTROPHY"+PFT,OLD,NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L84 QUE ABB=ON PLU=ON "MUSCULAR DYSTROPHY"+PFT,OLD,NT/CT
L45 L46 L47 L48 L49 L50 L51 L60 L61 L68 L69 L70 L71 L72 L73 L74 L75 L76 L77 L78 L79 L80 L81 L82 L83 L84 L85	849 483 270 7 19 2 21 32 41 15 7 16 29 22 3	SEA FILE=HCAPLUS ABB=ON PLU=ON L44 QUE ABB=ON PLU=ON PHARMAC?/SC, SX SEA FILE=HCAPLUS ABB=ON PLU=ON L45 AND L46 QUE ABB=ON PLU=ON PY<2003 OR PRY<2003 OR AY<2003 OR MY<2003 OR REVIEW/DT SEA FILE=HCAPLUS ABB=ON PLU=ON L47 AND L48 QUE ABB=ON PLU=ON IMMUNOSUPPRES? OR IMMUNOREG? OR IM MUN?(A) (SUPPRESS? OR REG?) SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L50 SEA FILE=HCAPLUS ABB=ON PLU=ON L60 AND L49 QUE ABB=ON PLU=ON AUTOIMMUN? SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L68 QUE ABB=ON PLU=ON "AUTOIMMUNE DISEASE"+PFT, OLD, NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L70 QUE ABB=ON PLU=ON INFLAMMATION+PFT, OLD, NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L72 QUE ABB=ON PLU=ON INFECTION+PFT, OLD, NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L74 QUE ABB=ON PLU=ON AIDS+PFT, OLD, NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L76 QUE ABB=ON PLU=ON ASTHMA+PFT, OLD, NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L76 QUE ABB=ON PLU=ON ASTHMA+PFT, OLD, NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L76 QUE ABB=ON PLU=ON ASTHMA+PFT, OLD, NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L78 QUE ABB=ON PLU=ON ASTHMA+PFT, OLD, NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L80 QUE ABB=ON PLU=ON ARTHRITIS+PFT, OLD, NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L80 QUE ABB=ON PLU=ON ARTHRITIS+PFT, OLD, NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L80 QUE ABB=ON PLU=ON ARTHRITIS+PFT, OLD, NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L82 QUE ABB=ON PLU=ON "MUSCULAR DYSTROPHY"+PFT, OLD, NT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L82 QUE ABB=ON PLU=ON "MUSCULAR DYSTROPHY"+PFT, OLD, NT/CT

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1.89
            12 SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L88
L90
            68 SEA FILE=HCAPLUS ABB=ON PLU=ON L51 OR L61 OR L69 OR
               L71 AND L73 OR L75 OR L77 OR L79 OR L81 OR L83 OR L85
                OR L89 OR L87
L94
                QUE ABB=ON PLU=ON NEOPLASM+PFT,OLD,NT/CT
             44 SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L94
L95
            32 SEA FILE=HCAPLUS ABB=ON PLU=ON L95 AND L90
L96
T.97
          1272 SEA FILE=HCAPLUS ABB=ON PLU=ON ("DOHERTY, GEORGE
               A."/AU OR "FORREST, MICHAEL J."/AU OR "HAJDU, RICHARD"/
               AU OR "HALE, JEFFREY J."/AU OR "LI, ZHEN"/AU OR
                "MANDALA, SUZANNE M."/AU OR "MILLS, SANDER G."/AU OR
                "ROSEN, HUGH"/AU OR "SCOLNICK, EDWARD M."/AU)
L98
                QUE ABB=ON PLU=ON MERCK?/PA,CS,SO,CO
           714 SEA FILE=HCAPLUS ABB=ON PLU=ON L97 AND L48
1.99
L100
           228 SEA FILE=HCAPLUS ABB=ON PLU=ON L99 AND L98
            26 SEA FILE=HCAPLUS ABB=ON PLU=ON L100 AND L50
L101
L120
             4 SEA FILE=HCAPLUS ABB=ON PLU=ON L96 AND L50
             O SEA FILE=HCAPLUS ABB=ON PLU=ON L120 NOT L101
L121
=> d his 1122
     (FILE 'HCAPLUS' ENTERED AT 12:23:02 ON 27 JUL 2007)
L122
            12 S L113 NOT (L118 OR L120)
=> d que 1122
L2
            424 SEA FILE=REGISTRY ABB=ON PLU=ON (100-83-4/BI OR
               101385-93-7/BI OR 101500-22-5/BI OR 103057-44-9/BI OR
               103680-62-2/BI OR 103680-71-3/BI OR 10521-91-2/BI OR
               106-41-2/BI OR 107-13-1/BI OR 108898-23-3/BI OR
               110943-74-3/BI OR 111-70-6/BI OR 111-86-4/BI OR
               1203-68-5/BI OR 1204-60-0/BI OR 121-32-4/BI OR
               121-33-5/BI OR 121118-78-3/BI OR 123-08-0/BI OR
               130592-02-8/BI OR 13138-33-5/BI OR 131888-48-7/BI OR
               13214-66-9/BI OR 13477-53-7/BI OR 13631-21-5/BI OR
               13880-74-5/BI OR 139-85-5/BI OR 143-16-8/BI OR
               146936-34-7/BI OR 148547-19-7/BI OR 149104-89-2/BI OR
               15174-69-3/BI OR 167279-18-7/BI OR 169806-13-7/BI OR
               17012-21-4/BI OR 18278-34-7/BI OR 188846-99-3/BI OR
               19463-48-0/BI OR 198959-37-4/BI OR 2052-07-5/BI OR
               208108-76-3/BI OR 2113-57-7/BI OR 2233-18-3/BI OR
               2314-36-5/BI OR 23703-22-2/BI OR 2374-05-2/BI OR
               24076-33-3/BI OR 24083-12-3/BI OR 24083-13-4/BI OR
               2420-16-8/BI OR 2439-54-5/BI OR 246847-91-6/BI OR
                2495-35-4/BI OR 25006-17-1/BI OR 256488-46-7/BI OR
                2973-76-4/BI OR 2973-77-5/BI OR 2973-78-6/BI OR
                3111-37-3/BI OR 3132-99-8/BI OR 3261-62-9/BI OR
                3300-51-4/BI OR 3453-33-6/BI OR 350-92-5/BI OR
                35622-27-6/BI OR 36476-78-5/BI OR 3761-92-0/BI OR
               38841-98-4/BI OR 3964-56-5/BI OR 401-95-6/BI OR
                40499-83-0/BI OR 4282-40-0/BI OR 4282-42-2/BI OR
                4282-44-4/BI OR 4815-96-7/BI OR 49763-67-9/BI OR
                49763-69-1/BI OR 500191-05-9/BI OR 50262-46-9/BI OR
                50773-56-3/BI OR 51572-88-4/BI OR 542-69-8/BI OR
                54256-43-8/BI OR 5438-36-8/BI OR 54784-14-4/BI OR
                54963-70-1/BI OR 556-18-3/BI OR 56-12-2/BI OR 56217-93-
               7/BI OR 56308-79-3/BI OR 56962-11-9/BI OR 569682-66-2/B
               I OR 569682-67-3/BI OR 569682-68-4/BI OR 569682-69-5/BI
                OR 569682-70-8/BI OR 569682-71-9/BI OR 569682-72-0/BI
               OR 569682-73-1/BI OR 569682-74-2/BI OR 569682-75-3/BI
               OR 569682-77-5/BI OR 569682-78-6/BI OR 569682-79-7/BI
                OR 569682-80-0/BI OR 569682-81-1/BI OR 569
L3
             71 SEA FILE=REGISTRY ABB=ON PLU=ON L2 AND 1/NR AND 1/P
               AND 1/N
           154 SEA FILE=REGISTRY ABB=ON PLU=ON L2 AND 1/P
L4
            23 SEA FILE=REGISTRY ABB=ON PLU=ON L4 AND C4N/RF
1.6
            36 SEA FILE=REGISTRY ABB=ON PLU=ON L2 AND C4S/RF
L8
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	10/3011/0
L9	67 SEA FILE=REGISTRY ABB=ON PLU=ON L2 AND C4N/RF
L10	7 SEA FILE=REGISTRY ABB=ON PLU=ON L8 AND L9
L11	7 SEA FILE=REGISTRY ABB=ON PLU=ON L2 AND C2N2O/RF
L12	1 SEA FILE=REGISTRY ABB=ON PLU=ON L10 AND L11
L13	43 SEA FILE=REGISTRY ABB=ON PLU=ON L2 AND 3/F
L14	36 SEA FILE=REGISTRY ABB=ON PLU=ON L13 AND L8
L15	7 SEA FILE=REGISTRY ABB=ON PLU=ON L13 AND L10
L16	12 SEA FILE=REGISTRY ABB=ON PLU=ON L2 AND C3N/RF
L17	6 SEA FILE=REGISTRY ABB=ON PLU=ON L16 AND L8
L18	1 SEA FILE=REGISTRY ABB=ON PLU=ON L16 AND L11
L19	40 SEA FILE=REGISTRY ABB=ON PLU=ON L9 AND C6/RF AND
шту	2/NR
L20	9 SEA FILE=REGISTRY ABB=ON PLU=ON L19 AND 4/O
L21	
121	
T 00	04/MF
L22	2 SEA FILE=REGISTRY ABB=ON PLU=ON L9 AND 1/F
L23	1 SEA FILE=REGISTRY ABB=ON PLU=ON L16 AND 2/NR AND 2/O
- 0.4	22
L24	22 SEA FILE=REGISTRY ABB=ON PLU=ON L9 AND 2/NR AND
	2-3/O AND C6/RF
L25	11 SEA FILE=REGISTRY ABB=ON PLU=ON L24 AND 2/O
L26	2 SEA FILE=REGISTRY ABB=ON PLU=ON L25 AND 21/C
L27	4 SEA FILE=REGISTRY ABB=ON PLU=ON L24 AND 20/C AND 3/O
L28	6 SEA FILE=REGISTRY ABB=ON PLU=ON L2 AND 2/BR
L29	3 SEA FILE=REGISTRY ABB=ON PLU=ON L28 AND 2/NR
L30	6 SEA FILE=REGISTRY ABB=ON PLU=ON L9 AND 2/NR AND 5/O
	AND 1/P
L31	6 SEA FILE=REGISTRY ABB=ON PLU=ON L15 AND 4/NR
L32	5 SEA FILE=REGISTRY ABB=ON PLU=ON L31 AND 3/O
L33	27 SEA FILE=REGISTRY ABB=ON PLU=ON L3 AND 4/O
L34	10 SEA FILE=REGISTRY ABB=ON PLU=ON L2 AND ?NAPHTH?/CNS
L35	5 SEA FILE=REGISTRY ABB=ON PLU=ON L34 AND 20-30/C
L37	44 SEA FILE=REGISTRY ABB=ON PLU=ON L2 AND ?BIPHENYL?/CNS
L38	32 SEA FILE=REGISTRY ABB=ON PLU=ON L37 AND 20-100/C
L41	68 SEA FILE=REGISTRY ABB=ON PLU=ON L3 AND C6/RF
L42	68 SEA FILE=REGISTRY ABB=ON PLU=ON L41 AND 12-50/C
L43	157 SEA FILE=REGISTRY ABB=ON PLU=ON L6 OR (L10 OR L11 OR
	L12 OR L13 OR L14 OR L15 OR L16 OR L17 OR L18) OR (L19
	OR L20 OR L21 OR L22 OR L23 OR L24 OR L25 OR L26 OR
	L27 OR L28 OR L29 OR L30 OR L31 OR L32 OR L33) OR L35
	OR L38
L44	199 SEA FILE=REGISTRY ABB=ON PLU=ON (L41 OR L42 OR L43)
L45	849 SEA FILE=HCAPLUS ABB=ON PLU=ON L44
L46	QUE ABB=ON PLU=ON PHARMAC?/SC,SX
L47	
	483 SEA FILE=HCAPLUS ABB=ON PLU=ON L45 AND L46
L48	483 SEA FILE=HCAPLUS ABB=ON PLU=ON L45 AND L46 QUE ABB=ON PLU=ON PY<2003 OR PRY<2003 OR AY<2003 OR
L48	483 SEA FILE=HCAPLUS ABB=ON PLU=ON L45 AND L46 QUE ABB=ON PLU=ON PY<2003 OR PRY<2003 OR AY<2003 OR MY<2003 OR REVIEW/DT
L48 L49	483 SEA FILE=HCAPLUS ABB=ON PLU=ON L45 AND L46 QUE ABB=ON PLU=ON PY<2003 OR PRY<2003 OR AY<2003 OR MY<2003 OR REVIEW/DT 270 SEA FILE=HCAPLUS ABB=ON PLU=ON L47 AND L48
L48	483 SEA FILE=HCAPLUS ABB=ON PLU=ON L45 AND L46 QUE ABB=ON PLU=ON PY<2003 OR PRY<2003 OR AY<2003 OR MY<2003 OR REVIEW/DT 270 SEA FILE=HCAPLUS ABB=ON PLU=ON L47 AND L48 QUE ABB=ON PLU=ON IMMUNOSUPPRES? OR IMMUNOREG? OR IM
L48 L49 L50	483 SEA FILE=HCAPLUS ABB=ON PLU=ON L45 AND L46 QUE ABB=ON PLU=ON PY<2003 OR PRY<2003 OR AY<2003 OR MY<2003 OR REVIEW/DT 270 SEA FILE=HCAPLUS ABB=ON PLU=ON L47 AND L48 QUE ABB=ON PLU=ON IMMUNOSUPPRES? OR IMMUNOREG? OR IMMUN?(A) (SUPPRESS? OR REG?)
L48 L49 L50	483 SEA FILE=HCAPLUS ABB=ON PLU=ON L45 AND L46 QUE ABB=ON PLU=ON PY<2003 OR PRY<2003 OR AY<2003 OR MY<2003 OR REVIEW/DT 270 SEA FILE=HCAPLUS ABB=ON PLU=ON L47 AND L48 QUE ABB=ON PLU=ON IMMUNOSUPPRES? OR IMMUNOREG? OR IM MUN?(A) (SUPPRESS? OR REG?) 7 SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L50
L48 L49 L50 L51 L52	483 SEA FILE=HCAPLUS ABB=ON PLU=ON L45 AND L46 QUE ABB=ON PLU=ON PY<2003 OR PRY<2003 OR AY<2003 OR MY<2003 OR REVIEW/DT 270 SEA FILE=HCAPLUS ABB=ON PLU=ON L47 AND L48 QUE ABB=ON PLU=ON IMMUNOSUPPRES? OR IMMUNOREG? OR IM MUN?(A) (SUPPRESS? OR REG?) 7 SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L50 QUE ABB=ON PLU=ON IMMUNOSUPPRESSANTS+PFT,OLD,NT/CT
L48 L49 L50 L51 L52 L53	483 SEA FILE=HCAPLUS ABB=ON PLU=ON L45 AND L46 QUE ABB=ON PLU=ON PY<2003 OR PRY<2003 OR AY<2003 OR MY<2003 OR REVIEW/DT 270 SEA FILE=HCAPLUS ABB=ON PLU=ON L47 AND L48 QUE ABB=ON PLU=ON IMMUNOSUPPRES? OR IMMUNOREG? OR IM MUN?(A) (SUPPRESS? OR REG?) 7 SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L50 QUE ABB=ON PLU=ON IMMUNOSUPPRESSANTS+PFT,OLD,NT/CT QUE ABB=ON PLU=ON IMMUNOSUPPRESSION+PFT,OLD,NT/CT
L48 L49 L50 L51 L52 L53 L55	483 SEA FILE=HCAPLUS ABB=ON PLU=ON L45 AND L46 QUE ABB=ON PLU=ON PY<2003 OR PRY<2003 OR AY<2003 OR MY<2003 OR REVIEW/DT 270 SEA FILE=HCAPLUS ABB=ON PLU=ON L47 AND L48 QUE ABB=ON PLU=ON IMMUNOSUPPRES? OR IMMUNOREG? OR IM MUN?(A) (SUPPRESS? OR REG?) 7 SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L50 QUE ABB=ON PLU=ON IMMUNOSUPPRESSANTS+PFT, OLD, NT/CT QUE ABB=ON PLU=ON IMMUNOSUPPRESSION+PFT, OLD, NT/CT QUE ABB=ON PLU=ON ANTAGONISM+PFT, OLD, NT/CT
L48 L49 L50 L51 L52 L53 L55 L57	483 SEA FILE=HCAPLUS ABB=ON PLU=ON L45 AND L46 QUE ABB=ON PLU=ON PY<2003 OR PRY<2003 OR AY<2003 OR MY<2003 OR REVIEW/DT 270 SEA FILE=HCAPLUS ABB=ON PLU=ON L47 AND L48 QUE ABB=ON PLU=ON IMMUNOSUPPRES? OR IMMUNOREG? OR IM MUN?(A) (SUPPRESS? OR REG?) 7 SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L50 QUE ABB=ON PLU=ON IMMUNOSUPPRESSANTS+PFT, OLD, NT/CT QUE ABB=ON PLU=ON IMMUNOSUPPRESSION+PFT, OLD, NT/CT QUE ABB=ON PLU=ON ANTAGONISM+PFT, OLD, NT/CT QUE ABB=ON PLU=ON AGON? OR ANTAG?
L48 L49 L50 L51 L52 L53 L55 L57 L59	483 SEA FILE=HCAPLUS ABB=ON PLU=ON L45 AND L46 QUE ABB=ON PLU=ON PY<2003 OR PRY<2003 OR AY<2003 OR MY<2003 OR REVIEW/DT 270 SEA FILE=HCAPLUS ABB=ON PLU=ON L47 AND L48 QUE ABB=ON PLU=ON IMMUNOSUPPRES? OR IMMUNOREG? OR IM MUN?(A) (SUPPRESS? OR REG?) 7 SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L50 QUE ABB=ON PLU=ON IMMUNOSUPPRESSANTS+PFT,OLD,NT/CT QUE ABB=ON PLU=ON IMMUNOSUPPRESSION+PFT,OLD,NT/CT QUE ABB=ON PLU=ON ANTAGONISM+PFT,OLD,NT/CT QUE ABB=ON PLU=ON ANTAGONISM+PFT,OLD,NT/CT QUE ABB=ON PLU=ON AGON? OR ANTAG? QUE ABB=ON PLU=ON EDG1(A)S1P?
L48 L49 L50 L51 L52 L53 L55 L57 L59 L60	483 SEA FILE=HCAPLUS ABB=ON PLU=ON L45 AND L46 QUE ABB=ON PLU=ON PY<2003 OR PRY<2003 OR AY<2003 OR MY<2003 OR REVIEW/DT 270 SEA FILE=HCAPLUS ABB=ON PLU=ON L47 AND L48 QUE ABB=ON PLU=ON IMMUNOSUPPRES? OR IMMUNOREG? OR IM MUN?(A) (SUPPRESS? OR REG?) 7 SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L50 QUE ABB=ON PLU=ON IMMUNOSUPPRESSANTS+PFT,OLD,NT/CT QUE ABB=ON PLU=ON IMMUNOSUPPRESSION+PFT,OLD,NT/CT QUE ABB=ON PLU=ON ANTAGONISM+PFT,OLD,NT/CT QUE ABB=ON PLU=ON AGON? OR ANTAG? QUE ABB=ON PLU=ON EDG1(A)S1P?
L48 L49 L50 L51 L52 L53 L55 L57 L59 L60 L61	483 SEA FILE=HCAPLUS ABB=ON PLU=ON L45 AND L46 QUE ABB=ON PLU=ON PY<2003 OR PRY<2003 OR AY<2003 OR MY<2003 OR REVIEW/DT 270 SEA FILE=HCAPLUS ABB=ON PLU=ON L47 AND L48 QUE ABB=ON PLU=ON IMMUNOSUPPRES? OR IMMUNOREG? OR IM MUN?(A) (SUPPRESS? OR REG?) 7 SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L50 QUE ABB=ON PLU=ON IMMUNOSUPPRESSANTS+PFT,OLD,NT/CT QUE ABB=ON PLU=ON IMMUNOSUPPRESSION+PFT,OLD,NT/CT QUE ABB=ON PLU=ON ANTAGONISM+PFT,OLD,NT/CT QUE ABB=ON PLU=ON AGON? OR ANTAG? QUE ABB=ON PLU=ON EDG1(A)S1P? 19 SEA FILE=HCAPLUS ABB=ON PLU=ON EDG1(A)S1P? 2 SEA FILE=HCAPLUS ABB=ON PLU=ON L60 AND L49
L48 L49 L50 L51 L52 L53 L55 L57 L59 L60 L61 L68	483 SEA FILE=HCAPLUS ABB=ON PLU=ON L45 AND L46 QUE ABB=ON PLU=ON PY<2003 OR PRY<2003 OR AY<2003 OR MY<2003 OR REVIEW/DT 270 SEA FILE=HCAPLUS ABB=ON PLU=ON L47 AND L48 QUE ABB=ON PLU=ON IMMUNOSUPPRES? OR IMMUNOREG? OR IM MUN?(A) (SUPPRESS? OR REG?) 7 SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L50 QUE ABB=ON PLU=ON IMMUNOSUPPRESSANTS+PFT,OLD,NT/CT QUE ABB=ON PLU=ON IMMUNOSUPPRESSION+PFT,OLD,NT/CT QUE ABB=ON PLU=ON ANTAGONISM+PFT,OLD,NT/CT QUE ABB=ON PLU=ON AGON? OR ANTAG? QUE ABB=ON PLU=ON EDG1(A)S1P? 19 SEA FILE=HCAPLUS ABB=ON PLU=ON EDG1(A)S1P? 2 SEA FILE=HCAPLUS ABB=ON PLU=ON L60 AND L49 QUE ABB=ON PLU=ON AUTOIMMUN?
L48 L49 L50 L51 L52 L53 L55 L57 L59 L60 L61 L68 L69	483 SEA FILE=HCAPLUS ABB=ON PLU=ON L45 AND L46 QUE ABB=ON PLU=ON PY<2003 OR PRY<2003 OR AY<2003 OR MY<2003 OR REVIEW/DT 270 SEA FILE=HCAPLUS ABB=ON PLU=ON L47 AND L48 QUE ABB=ON PLU=ON IMMUNOSUPPRES? OR IMMUNOREG? OR IM MUN?(A) (SUPPRESS? OR REG?) 7 SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L50 QUE ABB=ON PLU=ON IMMUNOSUPPRESSANTS+PFT,OLD,NT/CT QUE ABB=ON PLU=ON IMMUNOSUPPRESSION+PFT,OLD,NT/CT QUE ABB=ON PLU=ON ANTAGONISM+PFT,OLD,NT/CT QUE ABB=ON PLU=ON AGON? OR ANTAG? QUE ABB=ON PLU=ON EDG1(A)S1P? 19 SEA FILE=HCAPLUS ABB=ON PLU=ON EDG1(A)S1P? 2 SEA FILE=HCAPLUS ABB=ON PLU=ON L60 AND L49 QUE ABB=ON PLU=ON AUTOIMMUN? 21 SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L68
L48 L49 L50 L51 L52 L53 L55 L57 L59 L60 L61 L68 L69 L70	483 SEA FILE=HCAPLUS ABB=ON PLU=ON L45 AND L46 QUE ABB=ON PLU=ON PY<2003 OR PRY<2003 OR AY<2003 OR MY<2003 OR REVIEW/DT 270 SEA FILE=HCAPLUS ABB=ON PLU=ON L47 AND L48 QUE ABB=ON PLU=ON IMMUNOSUPPRES? OR IMMUNOREG? OR IM MUN?(A) (SUPPRESS? OR REG?) 7 SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L50 QUE ABB=ON PLU=ON IMMUNOSUPPRESSANTS+PFT,OLD,NT/CT QUE ABB=ON PLU=ON IMMUNOSUPPRESSION+PFT,OLD,NT/CT QUE ABB=ON PLU=ON ANTAGONISM+PFT,OLD,NT/CT QUE ABB=ON PLU=ON AGON? OR ANTAG? QUE ABB=ON PLU=ON EDG1(A)S1P? 19 SEA FILE=HCAPLUS ABB=ON PLU=ON EDG1(A)S1P? 2 SEA FILE=HCAPLUS ABB=ON PLU=ON L60 AND L49 QUE ABB=ON PLU=ON AUTOIMMUN? 21 SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L68 QUE ABB=ON PLU=ON "AUTOIMMUNE DISEASE"+PFT,OLD,NT/CT
L48 L49 L50 L51 L52 L53 L55 L57 L59 L60 L61 L68 L69 L70 L71	483 SEA FILE=HCAPLUS ABB=ON PLU=ON L45 AND L46 QUE ABB=ON PLU=ON PY<2003 OR PRY<2003 OR AY<2003 OR MY<2003 OR REVIEW/DT 270 SEA FILE=HCAPLUS ABB=ON PLU=ON L47 AND L48 QUE ABB=ON PLU=ON IMMUNOSUPPRES? OR IMMUNOREG? OR IM MUN?(A) (SUPPRESS? OR REG?) 7 SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L50 QUE ABB=ON PLU=ON IMMUNOSUPPRESSANTS+PFT,OLD,NT/CT QUE ABB=ON PLU=ON IMMUNOSUPPRESSION+PFT,OLD,NT/CT QUE ABB=ON PLU=ON ANTAGONISM+PFT,OLD,NT/CT QUE ABB=ON PLU=ON AGON? OR ANTAG? QUE ABB=ON PLU=ON EDG1(A)S1P? 19 SEA FILE=HCAPLUS ABB=ON PLU=ON EDG1(A)S1P? 2 SEA FILE=HCAPLUS ABB=ON PLU=ON L60 AND L49 QUE ABB=ON PLU=ON AUTOIMMUN? 21 SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L68 QUE ABB=ON PLU=ON "AUTOIMMUNE DISEASE"+PFT,OLD,NT/CT 32 SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L70
L48 L49 L50 L51 L52 L53 L55 L57 L59 L60 L61 L68 L69 L70 L71 L72	483 SEA FILE=HCAPLUS ABB=ON PLU=ON L45 AND L46 QUE ABB=ON PLU=ON PY<2003 OR PRY<2003 OR AY<2003 OR MY<2003 OR REVIEW/DT 270 SEA FILE=HCAPLUS ABB=ON PLU=ON L47 AND L48 QUE ABB=ON PLU=ON IMMUNOSUPPRES? OR IMMUNOREG? OR IM MUN?(A) (SUPPRESS? OR REG?) 7 SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L50 QUE ABB=ON PLU=ON IMMUNOSUPPRESSANTS+PFT,OLD,NT/CT QUE ABB=ON PLU=ON IMMUNOSUPPRESSION+PFT,OLD,NT/CT QUE ABB=ON PLU=ON ANTAGONISM+PFT,OLD,NT/CT QUE ABB=ON PLU=ON AGON? OR ANTAG? QUE ABB=ON PLU=ON EDG1(A)S1P? 19 SEA FILE=HCAPLUS ABB=ON PLU=ON EDG1(A)S1P? 2 SEA FILE=HCAPLUS ABB=ON PLU=ON L60 AND L49 QUE ABB=ON PLU=ON AUTOIMMUN? 21 SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L68 QUE ABB=ON PLU=ON "AUTOIMMUNE DISEASE"+PFT,OLD,NT/CT 32 SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L70 QUE ABB=ON PLU=ON INFLAMMATION+PFT,OLD,NT/CT
L48 L49 L50 L51 L52 L53 L55 L57 L59 L60 L61 L68 L69 L70 L71	483 SEA FILE=HCAPLUS ABB=ON PLU=ON L45 AND L46 QUE ABB=ON PLU=ON PY<2003 OR PRY<2003 OR AY<2003 OR MY<2003 OR REVIEW/DT 270 SEA FILE=HCAPLUS ABB=ON PLU=ON L47 AND L48 QUE ABB=ON PLU=ON IMMUNOSUPPRES? OR IMMUNOREG? OR IM MUN?(A) (SUPPRESS? OR REG?) 7 SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L50 QUE ABB=ON PLU=ON IMMUNOSUPPRESSANTS+PFT,OLD,NT/CT QUE ABB=ON PLU=ON IMMUNOSUPPRESSION+PFT,OLD,NT/CT QUE ABB=ON PLU=ON ANTAGONISM+PFT,OLD,NT/CT QUE ABB=ON PLU=ON AGON? OR ANTAG? QUE ABB=ON PLU=ON EDG1(A)S1P? 19 SEA FILE=HCAPLUS ABB=ON PLU=ON EDG1(A)S1P? 2 SEA FILE=HCAPLUS ABB=ON PLU=ON L60 AND L49 QUE ABB=ON PLU=ON AUTOIMMUN? 21 SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L68 QUE ABB=ON PLU=ON "AUTOIMMUNE DISEASE"+PFT,OLD,NT/CT 32 SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L70

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T.75
            15 SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L74
L76
             QUE ABB=ON PLU=ON AIDS+PFT,OLD,NT/CT
             7 SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L76
L77
L78
               QUE ABB=ON PLU=ON ASTHMA+PFT,OLD,NT/CT
            16 SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L78
L79
               QUE ABB=ON PLU=ON "RESPIRATORY SYSTEM, DISEASE"+PFT,
L80
               OLD, NT/CT
            29 SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L80
1.81
L82
               OUE ABB=ON PLU=ON ARTHRITIS+PFT,OLD,NT/CT
            22 SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L82
L83
               QUE ABB=ON PLU=ON "MUSCULAR DYSTROPHY"+PFT,OLD,NT/CT
L85
            3 SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L84
               QUE ABB=ON PLU=ON "SKIN, DISEASE"+PFT, OLD, NT/CT
L86
            30 SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L86
L87
             QUE ABB=ON PLU=ON DERMATITIS+PFT,OLD,NT/CT
1.88
L89
            12 SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L88
L90
            68 SEA FILE=HCAPLUS ABB=ON PLU=ON L51 OR L61 OR L69 OR
               L71 AND L73 OR L75 OR L77 OR L79 OR L81 OR L83 OR L85
               OR L89 OR L87
               QUE ABB=ON PLU=ON NEOPLASM+PFT,OLD,NT/CT
L94
            44 SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L94
1.95
L96
            32 SEA FILE=HCAPLUS ABB=ON PLU=ON L95 AND L90
          1272 SEA FILE=HCAPLUS ABB=ON PLU=ON ("DOHERTY, GEORGE
L97
               A."/AU OR "FORREST, MICHAEL J."/AU OR "HAJDU, RICHARD"/
               AU OR "HALE, JEFFREY J."/AU OR "LI, ZHEN"/AU OR
               "MANDALA, SUZANNE M."/AU OR "MILLS, SANDER G."/AU OR
               "ROSEN, HUGH"/AU OR "SCOLNICK, EDWARD M."/AU)
               QUE ABB=ON PLU=ON MERCK?/PA,CS,SO,CO
L98
1.99
           714 SEA FILE=HCAPLUS ABB=ON PLU=ON L97 AND L48
          228 SEA FILE=HCAPLUS ABB=ON PLU=ON L99 AND L98
L100
L101
           26 SEA FILE=HCAPLUS ABB=ON PLU=ON L100 AND L50
            28 SEA FILE=HCAPLUS ABB=ON PLU=ON L96 NOT L101
L103
           179 SEA FILE=REGISTRY ABB=ON PLU=ON L44 AND 18-70/C
L105
           15 SEA FILE=HCAPLUS ABB=ON PLU=ON L105
L106
           20 SEA FILE=REGISTRY ABB=ON PLU=ON L44 NOT L105
L109
            1 SEA FILE=REGISTRY ABB=ON PLU=ON L109 AND C14 H24 N
T.110
               O4 P/MF
             1 SEA FILE=REGISTRY ABB=ON PLU=ON L109 AND C17 H29 BR
L111
               N 05 P/MF
L112
           181 SEA FILE=REGISTRY ABB=ON PLU=ON L105 OR L110 OR L111
T-113
            15 SEA FILE=HCAPLUS ABB=ON PLU=ON L112
            15 SEA FILE=HCAPLUS ABB=ON PLU=ON L106 OR L113
T.114
             3 SEA FILE=HCAPLUS ABB=ON PLU=ON L114 AND L48
T.115
             3 SEA FILE=HCAPLUS ABB=ON PLU=ON L115 AND (L50 OR (L52
L116
               OR L53) OR L55 OR L57 OR L59 OR L70 OR L72 OR L74 OR
               L76 OR L78 OR L80)
L117
             3 SEA FILE=HCAPLUS ABB=ON PLU=ON L116 AND (L82 OR L84
              OR L86 OR L88 OR L94)
            3 SEA FILE=HCAPLUS ABB=ON PLU=ON L117 NOT L103
L118
L120
            4 SEA FILE=HCAPLUS ABB=ON PLU=ON L96 AND L50
            12 SEA FILE=HCAPLUS ABB=ON PLU=ON L113 NOT (L118 OR
L122
               L120)
=> d his 1127
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(FILE 'MEDLINE, BIOSIS, DRUGU, EMBASE' ENTERED AT 12:40:59 ON 27 JUL 2007)

L127 0 S L126

=> d que 1127

L2 424 SEA FILE=REGISTRY ABB=ON PLU=ON (100-83-4/BI OR 101385-93-7/BI OR 101500-22-5/BI OR 103057-44-9/BI OR 103680-62-2/BI OR 103680-71-3/BI OR 10521-91-2/BI OR 106-41-2/BI OR 107-13-1/BI OR 108898-23-3/BI OR 110943-74-3/BI OR 111-70-6/BI OR 111-86-4/BI OR

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1203-68-5/BI OR 1204-60-0/BI OR 121-32-4/BI OR
                121-33-5/BI OR 121118-78-3/BI OR 123-08-0/BI OR
                130592-02-8/BI OR 13138-33-5/BI OR 131888-48-7/BI OR
                13214-66-9/BI OR 13477-53-7/BI OR 13631-21-5/BI OR
                13880-74-5/BI OR 139-85-5/BI OR 143-16-8/BI OR
                146936-34-7/BI OR 148547-19-7/BI OR 149104-89-2/BI OR
               15174-69-3/BI OR 167279-18-7/BI OR 169806-13-7/BI OR
               17012-21-4/BI OR 18278-34-7/BI OR 188846-99-3/BI OR
               19463-48-0/BI OR 198959-37-4/BI OR 2052-07-5/BI OR
                208108-76-3/BI OR 2113-57-7/BI OR 2233-18-3/BI OR
                2314-36-5/BI OR 23703-22-2/BI OR 2374-05-2/BI OR
                24076-33-3/BI OR 24083-12-3/BI OR 24083-13-4/BI OR
                2420-16-8/BI OR 2439-54-5/BI OR 246847-91-6/BI OR
                2495-35-4/BI OR 25006-17-1/BI OR 256488-46-7/BI OR
                2973-76-4/BI OR 2973-77-5/BI OR 2973-78-6/BI OR
                3111-37-3/BI OR 3132-99-8/BI OR 3261-62-9/BI OR
                3300-51-4/BI OR 3453-33-6/BI OR 350-92-5/BI OR
                35622-27-6/BI OR 36476-78-5/BI OR 3761-92-0/BI OR
                38841-98-4/BI OR 3964-56-5/BI OR 401-95-6/BI OR
                40499-83-0/BI OR 4282-40-0/BI OR 4282-42-2/BI OR
                4282-44-4/BI OR 4815-96-7/BI OR 49763-67-9/BI OR
                49763-69-1/BI OR 500191-05-9/BI OR 50262-46-9/BI OR
                50773-56-3/BI OR 51572-88-4/BI OR 542-69-8/BI OR
                54256-43-8/BI OR 5438-36-8/BI OR 54784-14-4/BI OR
                54963-70-1/BI OR 556-18-3/BI OR 56-12-2/BI OR 56217-93-
                7/BI OR 56308-79-3/BI OR 56962-11-9/BI OR 569682-66-2/B
                I OR 569682-67-3/BI OR 569682-68-4/BI OR 569682-69-5/BI
                OR 569682-70-8/BI OR 569682-71-9/BI OR 569682-72-0/BI
                OR 569682-73-1/BI OR 569682-74-2/BI OR 569682-75-3/BI
                OR 569682-77-5/BI OR 569682-78-6/BI OR 569682-79-7/BI
                OR 569682-80-0/BI OR 569682-81-1/BI OR 569
L3
             71 SEA FILE=REGISTRY ABB=ON PLU=ON L2 AND 1/NR AND 1/P
               AND 1/N
L4
            154 SEA FILE=REGISTRY ABB=ON PLU=ON L2 AND 1/P
             23 SEA FILE=REGISTRY ABB=ON PLU=ON L4 AND C4N/RF
L6
            36 SEA FILE=REGISTRY ABB=ON PLU=ON L2 AND C4S/RF
L8
            67 SEA FILE=REGISTRY ABB=ON PLU=ON L2 AND C4N/RF
L9
             7 SEA FILE=REGISTRY ABB=ON PLU=ON L8 AND L9
L10
             7 SEA FILE=REGISTRY ABB=ON PLU=ON L2 AND C2N2O/RF
L11
L12
             1 SEA FILE=REGISTRY ABB=ON PLU=ON L10 AND L11
L13
            43 SEA FILE=REGISTRY ABB=ON PLU=ON L2 AND 3/F
L14
            36 SEA FILE=REGISTRY ABB=ON PLU=ON L13 AND L8
T.15
             7 SEA FILE=REGISTRY ABB=ON PLU=ON L13 AND L10
L16
            12 SEA FILE=REGISTRY ABB=ON PLU=ON L2 AND C3N/RF
             6 SEA FILE=REGISTRY ABB=ON PLU=ON L16 AND L8
L17
L18
             1 SEA FILE=REGISTRY ABB=ON PLU=ON L16 AND L11
L19
             40 SEA FILE=REGISTRY ABB=ON PLU=ON L9 AND C6/RF AND
                2/NR
L20
             9 SEA FILE=REGISTRY ABB=ON PLU=ON L19 AND 4/O
             1 SEA FILE=REGISTRY ABB=ON PLU=ON L20 AND C22 H33 N
L21
                04/MF
             2 SEA FILE=REGISTRY ABB=ON PLU=ON L9 AND 1/F
L22
L23
             1 SEA FILE=REGISTRY ABB=ON PLU=ON L16 AND 2/NR AND 2/O
             22 SEA FILE=REGISTRY ABB=ON PLU=ON L9 AND 2/NR AND
L24
                2-3/0 AND C6/RF
L25
             11 SEA FILE=REGISTRY ABB=ON PLU=ON L24 AND 2/O
L26
             2 SEA FILE=REGISTRY ABB=ON PLU=ON L25 AND 21/C
L27
             4 SEA FILE=REGISTRY ABB=ON PLU=ON L24 AND 20/C AND 3/O
L28
             6 SEA FILE=REGISTRY ABB=ON PLU=ON L2 AND 2/BR
                                         PLU=ON L28 AND 2/NR
L29
             3 SEA FILE=REGISTRY ABB=ON
L30
             6 SEA FILE=REGISTRY ABB=ON PLU=ON L9 AND 2/NR AND 5/O
               AND 1/P
             6 SEA FILE=REGISTRY ABB=ON PLU=ON L15 AND 4/NR
L31
             5 SEA FILE=REGISTRY ABB=ON PLU=ON L31 AND 3/O
L32
L33
             27 SEA FILE=REGISTRY ABB=ON PLU=ON L3 AND 4/O
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1.34
            10 SEA FILE=REGISTRY ABB=ON PLU=ON L2 AND ?NAPHTH?/CNS
L35
            5 SEA FILE=REGISTRY ABB=ON PLU=ON L34 AND 20-30/C
L37
            44 SEA FILE=REGISTRY ABB=ON PLU=ON L2 AND ?BIPHENYL?/CNS
L38
           32 SEA FILE=REGISTRY ABB=ON PLU=ON L37 AND 20-100/C
            68 SEA FILE=REGISTRY ABB=ON PLU=ON L3 AND C6/RF
L41
            68 SEA FILE=REGISTRY ABB=ON PLU=ON L41 AND 12-50/C
L42
           157 SEA FILE=REGISTRY ABB=ON PLU=ON L6 OR (L10 OR L11 OR
1.43
               L12 OR L13 OR L14 OR L15 OR L16 OR L17 OR L18) OR (L19
               OR L20 OR L21 OR L22 OR L23 OR L24 OR L25 OR L26 OR
               L27 OR L28 OR L29 OR L30 OR L31 OR L32 OR L33) OR L35
               OR L38
           199 SEA FILE=REGISTRY ABB=ON PLU=ON (L41 OR L42 OR L43)
L44
           179 SEA FILE=REGISTRY ABB=ON PLU=ON L44 AND 18-70/C
T-105
L109
           20 SEA FILE=REGISTRY ABB=ON PLU=ON L44 NOT L105
L110
             1 SEA FILE=REGISTRY ABB=ON PLU=ON L109 AND C14 H24 N
               O4 P/MF
             1 SEA FILE=REGISTRY ABB=ON PLU=ON L109 AND C17 H29 BR
L111
               N 05 P/MF
L112
           181 SEA FILE=REGISTRY ABB=ON PLU=ON L105 OR L110 OR L111
L126
             O SEA FILE=REGISTRY ABB=ON PLU=ON L112 AND EMBASE/LC
L127
             0 SEA L126
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=> dup rem 1119 1121 1122 1127

L119 HAS NO ANSWERS

L121 HAS NO ANSWERS

L127 HAS NO ANSWERS

FILE 'HCAPLUS' ENTERED AT 13:06:51 ON 27 JUL 2007

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FILE COVERS 1907 - 27 Jul 2007 VOL 147 ISS 6 FILE LAST UPDATED: 26 Jul 2007 (20070726/ED)

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This file contains CAS Registry Numbers for easy and accurate substance identification.

PROCESSING COMPLETED FOR L119

PROCESSING COMPLETED FOR L121

PROCESSING COMPLETED FOR L122

PROCESSING COMPLETED FOR L127

L134 12 DUP REM L119 L121 L122 L127 (0 DUPLICATES REMOVED)
ANSWERS '1-12' FROM FILE HCAPLUS

SEARCH RESULTS

\Rightarrow d 1134 1-12 ibib ed abs hitstr hitind

L134 ANSWER 1 OF 12 HCAPLUS COPYRIGHT 2007 ACS on STN ACCESSION NUMBER: 2007:262972 HCAPLUS Full-text

DOCUMENT NUMBER: 146:474760

TITLE: Identification of Leu276 of the S1P1 receptor and Phe263 of the S1P3 receptor in interaction with receptor specific agonists by molecular

modeling, site-directed mutagenesis, and

affinity studies

AUTHOR(S): Deng, Qiaolin; Clemas, Joseph A.; Chrebet,

Gary; Fischer, Paul; Hale, Jeffrey J.; Li, Zhen; Mills, Sander G.; Bergstrom, James; Mandala, Suzanne; Mosley, Ralph; Parent,

Stephen A.

CORPORATE SOURCE: Department of Molecular Systems, Merck

Research Laboratories, Rahway, NJ, USA

SOURCE: Molecular Pharmacology (2007), 71(3), 724-735

CODEN: MOPMA3; ISSN: 0026-895X

PUBLISHER: American Society for Pharmacology and

Experimental Therapeutics

DOCUMENT TYPE: Journal LANGUAGE: English ED Entered STN: 12 Mar 2007

Sphingosine-1-phosphate (S1P) receptor agonists are novel immunosuppressive agents. The selectivity of S1P1 against S1P3 is strongly correlated with lymphocyte sequestration and min. acute toxicity and bradycardia. This study describes mol. modeling, site-directed mutagenesis, and affinity studies exploring the mol. basis for selectivity between S1P1 and S1P3 receptors. Computational models of human S1P1 and S1P3 receptors bound with two nonselective agonists or two S1P1-selective agonists were developed based on the x-ray crystal structure of bovine rhodopsin. The models predict that S1P1 Leu276 and S1P3 Phe263 contribute to the S1P1/S1P3 selectivity of the two S1P1-selective agonists. These residues were subjected to site-directed mutagenesis. The wild-type and mutant S1P receptors were expressed in Chinese hamster ovary cells and examined for their abilities to bind to and be activated by agonists in vitro. The results indicate that the mutations have minimal effects on the activities of the two nonselective agonists, although they have dramatic effects on the S1P1-selective agonists. These studies provide a fundamental understanding of how these two receptorselective agonists bind to the S1P1 and S1P3 receptors, which should aid development of more selective S1P1 receptor agonists with immunosuppressive properties and improved safety profiles.

IT 570423-80-2

RL: ADV (Adverse effect, including toxicity); PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(identification of Leu276 of S1P1 receptor and Phe263 of S1P3 receptor in interaction with receptor specific agonists by mol. modeling, site-directed mutagenesis, and affinity studies)

RN 570423-80-2 HCAPLUS

CN 3-Azetidinecarboxylic acid, 1-[[3-methyl-4-[[4-phenyl-5-(trifluoromethyl)-2-thienyl]methoxy]phenyl]methyl]- (CA INDEX NAME)

$$\begin{array}{c|c} & \text{Me} & \text{CH}_2 & \text{CF}_3 \\ & \text{HO}_2\text{C} & \text{Ph} \end{array}$$

CC 1-3 (Pharmacology)

IT 26993-30-6, Sphingosine 1-phosphate 162359-56-0, FTY720

402615-91-2, FTY720-P 570423-80-2 635701-59-6

RL: ADV (Adverse effect, including toxicity); PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(identification of Leu276 of S1P1 receptor and Phe263 of S1P3 receptor in interaction with receptor specific agonists by mol. modeling, site-directed mutagenesis, and affinity studies)

45 THERE ARE 45 CITED REFERENCES AVAILABLE REFERENCE COUNT: FOR THIS RECORD. ALL CITATIONS AVAILABLE

IN THE RE FORMAT

L134 ANSWER 2 OF 12 HCAPLUS COPYRIGHT 2007 ACS on STN ACCESSION NUMBER: 2006:1311129 HCAPLUS <u>Full-text</u>
DOCUMENT NUMBER: 146:62699

TITLE: Preparation of polycyclic oxadiazoles or

isoxazoles as S1P receptor ligands

INVENTOR(S): Albert, Rainer; Weiler, Sven; Zecri, Frederic PATENT ASSIGNEE(S): Novartis A.-G., Switz.; Novartis Pharma

G.m.b.H.

SOURCE: PCT Int. Appl., 53pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATE	PATENT NO.					D	DATE			APPL	D	ATE				
WO 2	2006131336				A1	_	2006	1214	,	WO 2006-EP5422						006
	W: RW:	CA, ES, KE, LY, OM, SY, ZA, AT, HU, SK,	CH, FI, KG, MA, PG, TJ, ZM, BE, IE,	CN, GB, KM, MD, PH, TM, ZW BG, IS, BF,	CO, GD, KN, MG, PL, TN, CH, IT, BJ,	CR, GE, KP, MK, PT, TR, CY, LT, CF,	AU, CU, GH, KR, MN, RO, TT, CZ, LU, CG, GH,	CZ, GM, KZ, MW, RU, TZ, DE, LV, CI,	DE, HR, LC, MX, SC, UA, DK, MC, CM,	DK, HU, LK, MZ, SD, UG, EE, NL, GA,	DM, ID, LR, NA, SE, US, ES, PL, GN,	DZ, IL, LS, NG, SG, UZ, FI, PT,	EC, IN, LT, NI, SK, VC, FR, RO, GW,	EE, IS, LU, NO, SL, VN, GB, SE, ML,	BZ, EG, JP, LV, NZ, SM, YU, GR, SI, MR,	607
PRIORITY	APP			•	ΔМ,	∠w,	AM,	A4,	Í	GB 2	005-	1168	4	,	A 2 0	005 608
					ı	GB 2	006-	405			1 A 2	005 208 006 110				

OTHER SOURCE(S): MARPAT 146:62699

Entered STN: 15 Dec 2006 ED

GΙ

Title compds. represented by the formula I [wherein X = -N=, Y = 0; X = -O-, Y = -N=; R1 = substituted biphenyl, 4-phenoxyphenyl or 4-(phenylalkoxy)phenyl; R2 = (un)substituted alkyl, amino, sulfamoyl, etc.; and physiol. hydrolyzable derivs., hydrates or solvates thereof] were prepared as sphingosine-1-phosphate (S1P) receptor ligands. For example, II was provided in a multi-step synthesis starting from 4-chloro-3-trifluoromethylbenzoic acid. I showed binding affinity to human S1P1 receptor with EC50 < 1 nM, are active in in vitro FLIPR calcium flux assay at a concentration of from 10-12-3.10-5 nM, and have EC50 of less than 10 mg/kg in in vivo screening assays for measurement of blood lymphocyte depletion. Thus, I and their pharmaceutical compns. are useful as S1P receptor ligands, particularly as immunosuppressants.

IT 569685-50-3P

RI: PAC (Pharmacological activity): SPN (Synthetic preparation):

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of polycyclic oxadiazoles or isoxazoles as S1P receptor ligands)

RN 569685-50-3 HCAPLUS

CN Benzenemethanol, 4-[5-[4-phenyl-5-(trifluoromethyl)-2-thienyl]-1,2,4-oxadiazol-3-yl]- (CA INDEX NAME)

CC 28-6 (Heterocyclic Compounds (More Than One Hetero Atom)) Section cross-reference(s): 1, 63 916804-38-1P 916804-44-9P 916804-47-2P ΙT 569685-50-3P 916804-50-7P 916804-53-0P 916804-57-4P 916804-70-1P 916804-77-8P 916804-85-8P 916804-91-6P 916804-98-3P 916805-01-1P 916805-05-5P 916805-07-7P 916805-09-9P 916805-11-3P 916805-13-5P 916805-15-7P 916805-16-8P 916805-17-9P 916805-18-0P 916805-19-1P 916805-20-4P 916805-22-6P 916805-23-7P 916805-21-5P 916805-24-8P 916805-25-9P 916805-26-0P 916805-27-1P 916805-28-2P 916805-29-3P 916805-30-6P 916805-31-7P 916805-32-8P 916805-33-9P 916805-34-0P 916805-35-1P 916805-36-2P 916805-37-3P 916805-38-4P 916805-39-5P 916805-40-8P 916805-41-9P 916805-42-0P 916805-43-1P 916805-44-2P 916805-45-3P 916805-46-4P 916805-47-5P 916805-48-6P 916805-49-7P 916805-50-0P 916805-51-1P 916805-52-2P 916805-53-3P 916805-55-5P 916805-56-6P 916805-54-4P 916805-57-7P 916805-58-8P 916805-59-9P 916805-60-2P 916805-61-3P 916805-62-4P 916805-63-5P 916805-64-6P 916805-65-7P 916805-66-8P 916805-67-9P 916805-68-0P 916805-69-1P 916805-70-4P 916805-71-5P 916805-72-6P

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916805-73-7P 916805-74-8P
                                  916805-75-9P 916805-76-0P
    916805-77-1P 916805-78-2P 916805-79-3P 916805-80-6P 916805-81-7P 916805-82-8P 916805-83-9P 916805-84-0P 916805-85-1P 916805-86-2P 916805-87-3P 916805-88-4P
     916805-89-5P 916805-90-8P 916805-91-9P 916805-92-0P
     916805-93-1P 916805-94-2P 916805-95-3P 916805-96-4P
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     916806-01-4P 916806-02-5P 916806-03-6P 916806-04-7P
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     916806-09-2P 916806-10-5P 916806-11-6P 916806-12-7P
     916806-13-8P 916806-14-9P 916806-15-0P 916806-16-1P
     916806-17-2P 916806-18-3P 916806-19-4P 916806-20-7P
     916806-21-8P 916806-22-9P 916806-23-0P 916806-24-1P
     916806-25-2P 916806-26-3P 916806-27-4P 916806-28-5P
     916806-29-6P 916806-30-9P 916806-31-0P 916806-32-1P
     916806-33-2P
                   916806-34-3P 916806-35-4P
                                                 916806-36-5P
                   916806-38-7P 916806-39-8P
916806-42-3P 916806-43-4P
     916806-37-6P
                                                 916806-40-1P
                  916806-42-3P
     916806-41-2P
                                                 916806-44-5P
     916806-45-6P 916806-46-7P 916806-47-8P 916806-48-9P
     916806-49-0P 916806-50-3P 916806-51-4P 916806-52-5P
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     916806-57-0P 916806-58-1P 916806-59-2P 916806-60-5P
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     916806-65-0P 916806-67-2P 916806-69-4P 916806-70-7P
     916806-72-9P 916806-73-0P 916806-74-1P 916806-75-2P
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     916806-80-9P 916806-81-0P 916806-82-1P 916806-83-2P
     916806-84-3P 916806-85-4P 916833-78-8P 916833-79-9P
     916833-80-2P 916833-81-3P
     RL: PAC (Pharmacological activity); SPN (Synthetic preparation);
     THU (Therapeutic use); BIOL (Biological study); PREP
     (Preparation); USES (Uses)
        (preparation of polycyclic oxadiazoles or isoxazoles as S1P receptor
        ligands)
REFERENCE COUNT:
                        10
                              THERE ARE 10 CITED REFERENCES AVAILABLE
                              FOR THIS RECORD. ALL CITATIONS AVAILABLE
                              IN THE RE FORMAT
L134 ANSWER 3 OF 12 HCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2006:818237 HCAPLUS Full-text
DOCUMENT NUMBER:
                       145:224859
TITLE:
                      Antilymphocyte antibody induction for
                       prevention of transplant rejection
INVENTOR(S): Aradhye, Shreeram

PATENT ASSIGNEE(S): Novartis AG, Switz.; Novartis Pharma GmbH

SOURCE: PCT Tht 2001 C1
                        PCT Int. Appl., 21pp.
                        CODEN: PIXXD2
DOCUMENT TYPE:
                        Patent
LANGUAGE:
                        English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:
                    KIND DATE
                                       APPLICATION NO.
    PATENT NO.
                                                                 DATE
    WO 2006086361 A2 20060817 WO 2006-US4234
                                                                   2006
                                                                  0206
     WO 2006086361
                     A3 20070118
```

RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM PRIORITY APPLN. INFO:

2005
0208

ED Entered STN: 17 Aug 2006

AB An immunosuppressive treatment combining a S1P receptor modulator, one or more immunosuppressive drug(s) and an antilymphocyte antibody in the course of the treatment of a transplant recipient prolongs the survival of a transplant allograft. Thus, the patients were administered (i) FTY720 5 mg given 2 to 12 h prior to renal allograft revascularization, then 2.5 mg daily, (ii) cyclosporine A 8 to 10 mg/kg/day adjusted to achieve target blood levels, and (iii) corticosteroids. The dosage regimen of the study had a beneficial effect compared to standard immunosuppressive regimens.

IT 569684-46-4 569684-32-8

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(antilymphocyte antibody in combination with immunosuppressant and S1P receptor modulator for prevention of transplant rejection)

RN 569684-46-4 HCAPLUS

CN Phosphonic acid, [1-hydroxy-3-[[(4-nonylphenyl)methyl]amino]propyl]- (9CI) (CA INDEX NAME)

RN 569684-82-8 HCAPLUS

CN β -Alanine, N-[[4-[[4-phenyl-5-(trifluoromethyl)-2-thienyl]methoxy]phenyl]methyl]- (9CI) (CA INDEX NAME)

CC 1-7 (Pharmacology)

Section cross-reference(s): 15, 63

IT 24280-93-1, Mycophenolic acid 59865-13-3, Cyclosporine A
162359-56-0, FTY 720 569684-46-4 569684-82-8

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(antilymphocyte antibody in combination with immunosuppressant and S1P receptor modulator for prevention of transplant rejection)

L134 ANSWER 4 OF 12 HCAPLUS COPYRIGHT 2007 ACS on STN ACCESSION NUMBER: 2006:677741 HCAPLUS Full-text DOCUMENT NUMBER: 145:117363

MINITED TO THE PART OF THE PAR

TITLE: Use of sphingosine-1-phosphate (S1P) receptor

agonists for the treatment of hepatitis C

virus (HCV) disorders

INVENTOR(S):
Brinkmann, Volker; Feutren, Gilles

PATENT ASSIGNEE(S): Novartis AG, Switz.; Novartis Pharma GmbH

SOURCE: PCT Int. Appl., 44 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PA'	PATENT NO.				KIND		DATE			APPLICATION NO.					DATE
						_									
WO	WO 2006072562			A1 20060713			WO 2006-EP3								
															2006
															0102
	w:						AU,								
			•				CU,							,	
		ES,	FΙ,	GB,	GD,	GE,	GH,	GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,
		KE,	KG,	KM,	KN,	KP,	KR,	KΖ,	LC,	LK,	LR,	LS,	LT,	LU,	LV,
		LY,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	MΖ,	NA,	NG,	NΙ,	NO,	NZ,
		OM,	PG,	PH,	PL,	PT,	RO,	RU,	SC,	SD,	SE,	SG,	SK,	SL,	SM,
		SY,	ΤJ,	TM,	TN,	TR,	TT,	TZ,	UA,	UG,	US,	UΖ,	VC,	VN,	YU,
		ZA,	ZM,	ZW											
	RW:	ΑT,	BE,	BG,	CH,	CY,	CZ,	DE,	DK,	EE,	ES,	FI,	FR,	GB,	GR,
		HU,	ΙE,	IS,	ΙΤ,	LT,	LU,	LV,	MC,	NL,	PL,	PT,	RO,	SE,	SI,
		SK,	TR,	BF,	ВJ,	CF,	CG,	CI,	CM,	GΑ,	GN,	GQ,	GW,	ML,	MR,
		ΝE,	SN,	TD,	ΤG,	BW,	GH,	GM,	ΚE,	LS,	MW,	MZ,	NA,	SD,	SL,
		SZ,	TZ,	UG,	ZM,	ZW,	AM,	ΑZ,	BY,	KG,	KΖ,	MD,	RU,	ТJ,	TM
PRIORIT	PRIORITY APPLN. INFO.:						GB 2005-20				i	A			
															2005
															0104

OTHER SOURCE(S): MARPAT 145:117363

ED Entered STN: 13 Jul 2006

AB S1P receptor agonists are useful for the treatment of hepatitis C or chronic hepatitis C (HCV).

IT 569684-46-4 569684-82-8

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL

(Biological study); USES (Uses)

(S1P receptor agonists for treatment of hepatitis C virus \cdot

disorders)

RN 569684-46-4 HCAPLUS

CN Phosphonic acid, [1-hydroxy-3-[[(4-nonylphenyl)methyl]amino]propyl]- (9CI) (CA INDEX NAME)

RN 569684-82-8 HCAPLUS

CN β -Alanine, N-[[4-[[4-phenyl-5-(trifluoromethyl)-2-thienyl]methoxy]phenyl]methyl]- (9CI) (CA INDEX NAME)

CC 1-5 (Pharmacology)

IT 569684-46-4 569634-82-8

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(S1P receptor agonists for treatment of hepatitis C virus

disorders)

REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE

FOR THIS RECORD. ALL CITATIONS AVAILABLE

IN THE RE FORMAT

L134 ANSWER 5 OF 12 HCAPLUS COPYRIGHT 2007 ACS on STN ACCESSION NUMBER: 2006:499151 HCAPLUS <u>Full-text</u>

DOCUMENT NUMBER: 145:145483

TITLE: 2-Aryl(pyrrolidin-4-yl)acetic acids are potent

agonists of sphingosine-1-phosphate (S1P)

receptors

AUTHOR(S): Yan, Lin; Budhu, Richard; Huo, Pei; Lynch,

Christopher L.; Hale, Jeffrey J.; Mills, Sander G.; Hajdu, Richard; Keohane, Carol A.; Rosenbach, Mark J.; Milligan, James A.; Shei, Gan-Ju; Chrebet, Gary; Bergstrom, James; Card,

Deborah; Mandala, Suzanne M.

CORPORATE SOURCE: Department of Medicinal Chemistry, Merck

Research Laboratories, Rahway, NJ, 07065, USA

SOURCE: Bioorganic & Medicinal Chemistry Letters

(2006), 16(13), 3564-3568 CODEN: BMCLE8; ISSN: 0960-894X

PUBLISHER: Elsevier B.V.

DOCUMENT TYPE: Journal LANGUAGE: English

OTHER SOURCE(S): CASREACT 145:145483

ED Entered STN: 29 May 2006

GΙ

TT

AB 2-Aryl(pyrrolidin-4-yl)acetic acids I [R = i-Bu, cyclopentyl, cyclohexyl, F3C(CH2)2, 3,3-difluoro-1-cyclopentyl, 4,4-difluoro-1-cyclohexyl] and II were synthesized and their biol. activities as agonists of S1P receptors were evaluated. These analogs were able to induce lowering of lymphocyte counts in the peripheral blood of mice and were found to have good overall pharmacokinetic properties in rats.

570423-67-5 RL: PAC (Pharmacological activity); PKT (Pharmacokinetics); BIOL (Biological study)

(preparation and biol. activity of thiophene- or oxadiazole-functionalized (aryl)pyrrolidineacetic acids as potent agonists of sphingosine-1-phosphate receptors)

RN 570423-67-5 HCAPLUS

CN 3-Azetidinecarboxylic acid, 1-[[4-[[4-phenyl-5-(trifluoromethyl)-2-thienyl]methoxy]phenyl]methyl]- (9CI) (CA INDEX NAME)

```
HO2C N-CH2 O-CH2 SPh
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```
27-10 (Heterocyclic Compounds (One Hetero Atom))
CC
     Section cross-reference(s): 1, 28
     570423-67-5
                  635701-59-6
ΙT
     RL: PAC (Pharmacological activity); PKT (Pharmacokinetics); BIOL
     (Biological study)
        (preparation and biol. activity of thiophene- or
        oxadiazole-functionalized (aryl)pyrrolidineacetic acids as
        potent agonists of sphingosine-1-phosphate receptors)
                               THERE ARE 21 CITED REFERENCES AVAILABLE
REFERENCE COUNT:
                         21
                               FOR THIS RECORD. ALL CITATIONS AVAILABLE
                               IN THE RE FORMAT
L134 ANSWER 6 OF 12 HCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER:
                         2006:772794 HCAPLUS Full-text
DOCUMENT NUMBER:
                         145:369215
TITLE:
                         Species differences in metabolism and
                         pharmacokinetics of a sphingosine-1-phosphate
                         receptor agonist in rats and dogs: formation
                         of a unique glutathione adduct in the rat
AUTHOR(S):
                         Anari, M. Reza; Creighton, Mellissa D.; Ngui,
                         Jason S.; Tschirret-Guth, Richard A.; Teffera,
                         Yohannes; Doss, George A.; Tang, Wei; Yu,
                         Nathan X.; Ciccotto, Suzanne L.; Hobra, Donald
                         F., Jr.; Coleman, John B.; Vincent, Stella H.;
                         Evans, David C.
CORPORATE SOURCE:
                         Department of Drug Metabolism, Merck Research
                         Laboratories, West Point, PA, USA
SOURCE:
                         Drug Metabolism and Disposition (2006), 34(8),
                         1367-1375
                         CODEN: DMDSAI; ISSN: 0090-9556
PUBLISHER:
                         American Society for Pharmacology and
                         Experimental Therapeutics
DOCUMENT TYPE:
                         Journal
LANGUAGE:
                         English
     Entered STN: 06 Aug 2006
F.D
     The pharmacokinetics and metabolism of 1-(4-(4-phenyl-5-trifluoromethyl-2-
     thienyl)methoxy)benzyl)azetidine-3-carboxylic acid (MRL-A), a selective agonist for the
     sphingosine-1-phosphate 1 (S1P1) receptor, were investigated in rats and dogs. In both
     species, more than 50\% of the dose was excreted in bile. Specific to the rat, and
     observed in bile, were a taurine conjugate of MRL-A and a glucuronide conjugate of an
     azetidine lactam metabolite. In dogs, a smaller portion of the dose (54\%) of
     administered dose) was excreted intact in bile, and the major metabolites detected were
     an azetidine N-oxide of MRL-A and an acylglucuronide of an N-dealkylation product.
     This latter metabolite was also observed in rat bile. Stereoselective formation of the
     N-oxide isomer was observed in dogs, whereas the rat produced comparable amts. of both
     isomers. The formation of a unique glutathione adduct was observed in rat bile, which
     was proposed to occur via N-dealkylation, followed by reduction of the putative
     aldehyde product to form the alc., and dehydration of the alc. to generate a reactive
     quinone methide intermediate. Incubation of a synthetic standard of this alc. in rat
     microsomes fortified with reduced glutathione or rat hepatocytes resulted in formation
     of this unique glutathione adduct.
     570423-67-5, MRL-A
TT
```

(species differences in metabolism and pharmacokinetics of a sphingosine-1-phosphate receptor agonist MRL-A in rats and

3-Azetidinecarboxylic acid, 1-[[4-[[4-phenyl-5-(trifluoromethyl)-2-

RL: PKT (Pharmacokinetics); BIOL (Biological study)

dogs)

RN

CN

570423-67-5 HCAPLUS

thienyl]methoxy]phenyl]methyl]- (9CI) (CA INDEX NAME)

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\begin{array}{c|c} & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\
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CC 1-2 (Pharmacology) IT 570423-67-5, MRL-A

RL: PKT (Pharmacokinetics); BIOL (Biological study)

(species differences in metabolism and pharmacokinetics of a sphingosine-1-phosphate receptor agonist MRL-A in rats and

dogs)

REFERENCE COUNT: 28 THERE ARE 28 CITED REFERENCES AVAILABLE

FOR THIS RECORD. ALL CITATIONS AVAILABLE

IN THE RE FORMAT

L134 ANSWER 7 OF 12 HCAPLUS COPYRIGHT 2007 ACS on STN ACCESSION NUMBER: 2005:986123 HCAPLUS Full-text

DOCUMENT NUMBER: 143:431986

TITLE: Discovery of Potent 3,5-Diphenyl-1,2,4-oxadiazole Sphingosine-1-phosphate-1 (S1P1)

Receptor Agonists with Exceptional Selectivity

against S1P2 and S1P3

AUTHOR(S): Li, Zhen; Chen, Weirong; Hale, Jeffrey J.;

Lynch, Christopher L.; Mills, Sander G.; Hajdu, Richard; Keohane, Carol Ann; Rosenbach, Mark J.; Milligan, James A.; Shei, Gan-Ju; Chrebet, Gary; Parent, Stephen A.; Bergstrom, James; Card, Deborah; Forrest, Michael;

Quackenbush, Elizabeth J.; Wickham, L. Alexandra; Vargas, Hugo; Evans, Rose M.;

Rosen, Hugh; Mandala, Suzanne

CORPORATE SOURCE: Departments of Medicinal Chemistry and

Immunology Rheumatology Research, Merck

Research Laboratories, Rahway, NJ, 07065, USA Journal of Medicinal Chemistry (2005), 48(20),

6169-6173

CODEN: JMCMAR; ISSN: 0022-2623

PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal LANGUAGE: English

OTHER SOURCE(S): CASREACT 143:431986

ED Entered STN: 11 Sep 2005

SOURCE:

AB A class of 3,5-diphenyl-1,2,4-oxadiazole based compds. have been identified as potent sphingosine-1-phosphate-1 (S1P1) receptor agonists with minimal affinity for the S1P2 and S1P3 receptor subtypes. Analog 26 (S1P1 IC50 = 0.6 nM) has an excellent pharmacokinetics profile in the rat and dog and is efficacious in a rat skin transplant model, indicating that S1P3 receptor agonism is not a component of immunosuppressive efficacy.

IT 570423-67-5 570423-80-2

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL

(Biological study); USES (Uses)

(Discovery of Potent 3,5-Diphenyl-1,2,4-oxadiazole Sphingosine-1-phosphate-1 (S1P1) Receptor Agonists with

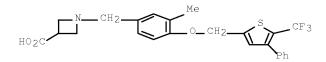
Exceptional Selectivity) RN 570423-67-5 HCAPLUS

CN 3-Azetidinecarboxylic acid, 1-[[4-[[4-phenyl-5-(trifluoromethyl)-2-thienyl]methoxy]phenyl]methyl]- (9CI) (CA INDEX NAME)

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HO2C CH2 CF3
```

RN 570423-80-2 HCAPLUS

CN 3-Azetidinecarboxylic acid, 1-[[3-methyl-4-[[4-phenyl-5-(trifluoromethyl)-2-thienyl]methoxy]phenyl]methyl]- (CA INDEX NAME)



CC 1-3 (Pharmacology)

Section cross-reference(s): 28

IT 159222-57-8 162359-55-9 402615-91-2 570423-67-5

570423-80-2

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL

(Biological study); USES (Uses)

(Discovery of Potent 3,5-Diphenyl-1,2,4-oxadiazole

Sphingosine-1-phosphate-1 (S1P1) Receptor Agonists with

Exceptional Selectivity)

REFERENCE COUNT: 28 THERE ARE 28 CITED REFERENCES AVAILABLE

FOR THIS RECORD. ALL CITATIONS AVAILABLE

IN THE RE FORMAT

L134 ANSWER 8 OF 12 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2004:1048937 HCAPLUS <u>Full-text</u>

DOCUMENT NUMBER: 142:147835

TITLE: A Rational Utilization of High-Throughput

Screening Affords Selective, Orally Bioavailable 1-Benzyl-3-carboxyazetidine Sphingosine-1-phosphate-1 Receptor Agonists

AUTHOR(S): Hale, Jeffrey J.; Lynch, Christopher L.;

Neway, William; Mills, Sander G.; Hajdu, Richard; Keohane, Carol Ann; Rosenbach, Mark J.; Milligan, James A.; Shei, Gan-Ju; Parent, Stephen A.; Chrebet, Gary; Bergstrom, James; Card, Deborah; Ferrer, Marc; Hodder, Peter;

Strulovici, Berta; Rosen, Hugh; Mandala,

Suzanne

CORPORATE SOURCE: Departments of Medicinal Chemistry and

Immunology and Rheumatology Research, Merck
Research Laboratories, Rahway, NJ, 07065, USA

SOURCE: Journal of Medicinal Chemistry (2004), 47(27),

6662-6665

CODEN: JMCMAR; ISSN: 0022-2623

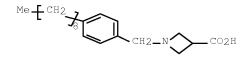
PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal LANGUAGE: English

OTHER SOURCE(S): CASREACT 142:147835

ED Entered STN: 08 Dec 2004

GΙ



I

AB Moderately potent, selective S1P1 receptor agonists identified from high-throughput screening have been adapted into lipophilic tails for a class of orally bioavailable amino acid-based S1P1 agonists represented by I. Many of the new compds. are potent S1P1 agonists that select against the S1P2, S1P3, and S1P4 (although not S1P5) receptor subtypes. Two of the analogs are highly orally bioavailable and possess excellent pharmacokinetic profiles in the rat, dog, and rhesus monkey.

IT 570423-67-5P 570423-76-6P 570423-80-2P

570423-81-3P

RL: PAC (Pharmacological activity); PKT (Pharmacokinetics); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(1-benzyl-3-carboxyazetidine derivs. as EDG-1 receptor agonists and immunosuppressants: high-throughput screening for oral bioavailability and preparation)

RN 570423-67-5 HCAPLUS

CN 3-Azetidinecarboxylic acid, 1-[[4-[[4-phenyl-5-(trifluoromethyl)-2-thienyl]methoxy]phenyl]methyl]- (9CI) (CA INDEX NAME)

RN 570423-76-6 HCAPLUS

CN 3-Azetidinecarboxylic acid, 1-[[3-chloro-4-[[4-phenyl-5-(trifluoromethyl)-2-thienyl]methoxy]phenyl]methyl]- (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} & \text{C1} & \text{C1} \\ & \text{HO}_2\text{C} & \text{CH}_2 & \text{CF}_3 \end{array}$$

RN 570423-80-2 HCAPLUS

CN 3-Azetidinecarboxylic acid, 1-[[3-methyl-4-[[4-phenyl-5-(trifluoromethyl)-2-thienyl]methoxy]phenyl]methyl]- (CA INDEX NAME)

RN 570423-81-3 HCAPLUS

CN 3-Azetidinecarboxylic acid, 1-[[4-[5-[4-phenyl-5-(trifluoromethyl)-2-thienyl]-1,2,4-oxadiazol-3-yl]phenyl]methyl]- (9CI) (CA INDEX NAME)

IT 570423-45-9P 570423-78-8P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(1-benzyl-3-carboxyazetidine derivs. as EDG-1 receptor agonists and immunosuppressants: high-throughput screening for oral bioavailability and preparation)

RN 570423-45-9 HCAPLUS

CN 3-Pyrrolidinecarboxylic acid, 1-[[4-[[4-phenyl-5-(trifluoromethyl)-2-thienyl]methoxy]phenyl]methyl]- (9CI) (CA INDEX NAME)

$$HO_2C$$
 $O-CH_2$ $O-CH_2$ $O-CH_2$ $O-CH_3$

RN 570423-78-8 HCAPLUS

CN 3-Azetidinecarboxylic acid, 1-[[3-methoxy-4-[[4-phenyl-5-(trifluoromethyl)-2-thienyl]methoxy]phenyl]methyl]- (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} & \text{OMe} & \text{OMe} \\ & \text{OCH}_2 & \text{OCH}_2 & \text{S} \\ & \text{Ph} & \text{OCH}_3 & \text{OCH}_3 \\ \end{array}$$

IT 569683-55-2 570423-38-0 570423-46-0

570423-68-6

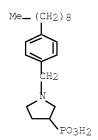
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

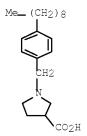
(1-benzyl-3-carboxyazetidine derivs. as EDG-1 receptor agonists and immunosuppressants: high-throughput screening for oral bioavailability and preparation)

RN 569683-55-2 HCAPLUS

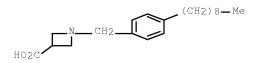
CN Phosphonic acid, [3-[[[3-bromo-5-methoxy-4-(octyloxy)phenyl]methyl]amino]propyl]- (9CI) (CA INDEX NAME)

RN 570423-38-0 HCAPLUS
CN Phosphonic acid, [1-[(4-nonylphenyl)methyl]-3-pyrrolidinyl]- (9CI)
(CA INDEX NAME)





RN 570423-68-6 HCAPLUS
CN 3-Azetidinecarboxylic acid, 1-[(4-nonylphenyl)methyl]- (9CI) (CA
INDEX NAME)



bioavailability and preparation)

- RN 569685-42-3 HCAPLUS
- CN Benzaldehyde, 4-[5-[4-phenyl-5-(trifluoromethyl)-2-thienyl]-1,2,4-oxadiazol-3-yl]- (9CI) (CA INDEX NAME)

- RN 569685-43-4 HCAPLUS
- CN Benzaldehyde, 4-[[4-phenyl-5-(trifluoromethyl)-2-thienyl]methoxy](9CI) (CA INDEX NAME)

- RN 569685-49-0 HCAPLUS
- CN Benzoic acid, 4-[5-[4-phenyl-5-(trifluoromethyl)-2-thienyl]-1,2,4-oxadiazol-3-yl]-, methyl ester (9CI) (CA INDEX NAME)

- RN 569685-50-3 HCAPLUS
- CN Benzenemethanol, 4-[5-[4-phenyl-5-(trifluoromethyl)-2-thienyl]-1,2,4-oxadiazol-3-yl]- (CA INDEX NAME)

- CC 1-3 (Pharmacology)
 - Section cross-reference(s): 27
- IT 570423-67-5P 570423-76-6P 570423-80-2P 570423-81-3P

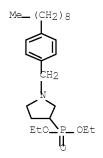
RL: PAC (Pharmacological activity); PKT (Pharmacokinetics); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

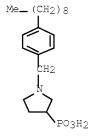
 $(1-benzyl-3-carboxyazetidine\ derivs.\ as\ EDG-1\ receptor\ agonists$ and immunosuppressants: high-throughput screening for oral

```
bioavailability and preparation)
     570423-45-9P 570423-78-8P 828269-16-5P
ΙT
                   828269-18-7P 828269-19-8P
     828269-17-6P
                                                  828269-20-1P
     828269-21-2P
     RL: PAC (Pharmacological activity); SPN (Synthetic preparation);
     THU (Therapeutic use); BIOL (Biological study); PREP
     (Preparation); USES (Uses)
        (1-benzyl-3-carboxyazetidine derivs. as EDG-1 receptor agonists
        and immunosuppressants: high-throughput screening for oral
        bioavailability and preparation)
     162359-56-0, FTY 720
                          256414-75-2
                                          256414-76-3
     402615-91-2 569683-55-2 570423-38-0
     570423-46-0 570423-68-6
                              725724-60-7
     RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
     (Biological study); USES (Uses)
        (1-benzyl-3-carboxyazetidine derivs. as EDG-1 receptor agonists
        and immunosuppressants: high-throughput screening for oral
        bioavailability and preparation)
     146936-34-7P
                   167279-18-7P 208108-76-3P
                                                  256488-46-7P
     569685-42-3P 569685-43-4P 569685-49-0P
     569685-50-3P
     RL: RCT (Reactant); SPN (Synthetic preparation); PREP
     (Preparation); RACT (Reactant or reagent)
        (1-benzyl-3-carboxyazetidine derivs. as EDG-1 receptor agonists
        and immunosuppressants: high-throughput screening for oral
        bioavailability and preparation)
                               THERE ARE 15 CITED REFERENCES AVAILABLE
REFERENCE COUNT:
                        15
                               FOR THIS RECORD. ALL CITATIONS AVAILABLE
                               IN THE RE FORMAT
L134 ANSWER 9 OF 12 HCAPLUS COPYRIGHT 2007 ACS on STN
                         2004:729837 HCAPLUS Full-text
ACCESSION NUMBER:
DOCUMENT NUMBER:
                         141:395611
TITLE:
                         Design and synthesis of conformationally
                         constrained 3-(N-alkylamino)propylphosphonic
                         acids as potent agonists of
                         sphingosine-1-phosphate (S1P) receptors
AUTHOR(S):
                         Yan, Lin; Hale, Jeffrey J.; Lynch, Christopher
                         L.; Budhu, Richard; Gentry, Amy; Mills, Sander
                         G.; Hajdu, Richard; Keohane, Carol Ann;
                         Rosenbach, Mark J.; Milligan, James A.; Shei,
                         Gan-Ju; Chrebet, Gary; Bergstrom, James; Card,
                         Deborah; Rosen, Hugh; Mandala, Suzanne M.
CORPORATE SOURCE:
                         Department of Medicinal Chemistry, Merck
                         Research Laboratories, Rahway, NJ, 07065, USA
                         Bioorganic & Medicinal Chemistry Letters
SOURCE:
                         (2004), 14(19), 4861-4866
                         CODEN: BMCLE8; ISSN: 0960-894X
PUBLISHER:
                         Elsevier B.V.
DOCUMENT TYPE:
                         Journal
LANGUAGE:
                        English
OTHER SOURCE(S):
                        CASREACT 141:395611
    Entered STN: 08 Sep 2004
     Conformationally constrained 3-(N-alkylamino) propylphosphonic acids were systematically
     synthesized and their activities as S1P receptor agonists were evaluated. Several
     pyrrolidine and cyclohexane analogs had S1P receptor profiles comparable to the acyclic
     lead compound, 3-(N-tetradecylamino)propylphosphonic acid (3), lowered circulating
     lymphocytes in mice after iv administration and were thus identified as being suitable
     for further studies.
     569684-50-0
ΤТ
     RL: PAC (Pharmacological activity); BIOL (Biological study)
        (design and synthesis of conformationally constrained
        (alkylamino)propylphosphonic acids as potent agonists of
        sphingosinephosphate (S1P) receptors)
RN
     569684-50-0 HCAPLUS
     Phosphonic acid, [3-[[(4-nonylphenyl)methyl]amino]propyl]- (9CI)
CN
```

(CA INDEX NAME)

IT 570423-96-0P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP
 (Preparation); RACT (Reactant or reagent)
 (design and synthesis of conformationally constrained
 (alkylamino)propylphosphonic acids as potent agonists of
 sphingosinephosphate (S1P) receptors)
RN 570423-96-0 HCAPLUS
CN Phosphonic acid, [1-[(4-nonylphenyl)methyl]-3-pyrrolidinyl]-,
 diethyl ester (9CI) (CA INDEX NAME)





CC 29-7 (Organometallic and Organometalloidal Compounds)
Section cross-reference(s): 1

IT 402615-91-2 569684-50-0 725724-60-7 785815-68-1
RL: PAC (Pharmacological activity); BIOL (Biological study)
(design and synthesis of conformationally constrained
(alkylamino)propylphosphonic acids as potent agonists of

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sphingosinephosphate (S1P) receptors)
                  157634-00-9P 570423-92-6P 570423-96-0P
ΙT
     17012-21-4P
     849811-77-4P
                   849811-93-4P
                                  849811-94-5P
                                                 849812-00-6P
     849812-20-0P
                   849812-22-2P
                                  849812-30-2P
                                                 849812-61-9P
                  849813-78-1P
                                 849813-85-0P
     849813-76-9P
                                                 849813-86-1P
     849813-88-3P 849814-14-8P 849814-16-0P 849814-18-2P
     849814-20-6P 849814-22-8P 849814-23-9P 849815-30-1P
     849816-37-1P 849816-38-2P 849816-39-3P 849816-43-9P
     849816-44-0P 849816-48-4P 849816-51-9P
                                                 849816-84-8P
     849817-15-8P 849817-72-7P 849818-04-8P
     RL: RCT (Reactant); SPN (Synthetic preparation); PREP
     (Preparation); RACT (Reactant or reagent)
        (design and synthesis of conformationally constrained
        (alkylamino)propylphosphonic acids as potent agonists of
        sphingosinephosphate (S1P) receptors)
     570423-38-0P
ΤТ
     RL: PAC (Pharmacological activity); SPN (Synthetic preparation);
     BIOL (Biological study); PREP (Preparation)
        (preparation of alkylpyrrolidinylphosphonate as conformationally
        constrained (alkylamino)propylphosphonic acids useful as potent
       agonists of sphingosinephosphate (S1P) receptors)
REFERENCE COUNT:
                         2.4
                               THERE ARE 24 CITED REFERENCES AVAILABLE
                               FOR THIS RECORD. ALL CITATIONS AVAILABLE
                               IN THE RE FORMAT
L134 ANSWER 10 OF 12 HCAPLUS COPYRIGHT 2007 ACS on STN
                        2004:465500 HCAPLUS Full-text
ACCESSION NUMBER:
DOCUMENT NUMBER:
                        141:116457
TITLE:
                        Selecting against S1P3 enhances the acute
                         cardiovascular tolerability of
                         3-(N-benzyl)aminopropylphosphonic acid S1P
                        receptor agonists
AUTHOR(S):
                        Hale, Jeffrey J.; Doherty, George; Toth,
                         Leslie; Mills, Sander G.; Hajdu, Richard;
                         Keohane, Carol Ann; Rosenbach, Mark; Milligan,
                         James; Shei, Gan-Ju; Chrebet, Gary; Bergstrom,
                         James; Card, Deborah; Forrest, Michael; Sun,
                         Shu-Yu; West, Sarah; Xie, Huijuan; Nomura,
                         Naomi; Rosen, Hugh; Mandala, Suzanne
CORPORATE SOURCE:
                         Department of Medicinal Chemistry, Merck
                         Research Laboratories, Rahway, NJ, 07065, USA
SOURCE:
                        Bioorganic & Medicinal Chemistry Letters
                         (2004), 14(13), 3501-3505
                        CODEN: BMCLE8; ISSN: 0960-894X
PUBLISHER:
                        Elsevier Science B.V.
DOCUMENT TYPE:
                        Journal
LANGUAGE:
                        English
OTHER SOURCE(S):
                        CASREACT 141:116457
    Entered STN: 10 Jun 2004
     Structurally modified 3-(N-benzylamino) propylphosphonic acid S1P receptor agonists that
AB
     maintain affinity for S1P1, and have decreased affinity for S1P3 are efficacious, but
     exhibit decreased acute cardiovascular toxicity in rodents compared to nonselective
     agonists.
     569682-67-3P 569682-68-4P 569682-73-1P
     569682-91-3P 569682-93-5P 569682-97-9P
     569682-99-1P 569683-01-8P 569683-30-3P
     569683-32-5P 569683-34-7P 569683-55-2P
     569683-59-6P 569683-61-0P 569683-63-2P
     569683-70-1P 569683-76-7P 569683-78-9P
     569683-81-4P 569683-82-5P 569683-89-2P
     569683-90-5P 569683-92-7P 569684-01-1P
     569684-32-8P 569684-50-0P
     RL: ADV (Adverse effect, including toxicity); PAC (Pharmacological
     activity); SPN (Synthetic preparation); THU (Therapeutic use);
     BIOL (Biological study); PREP (Preparation); USES (Uses)
        (selecting against S1P3 enhances acute cardiovascular
       tolerability of 3-(N-benzyl)aminopropylphosphonic acid S1P
```

receptor agonists)
RN 569682-67-3 HCAPLUS

CN Phosphonic acid, [3-[[[4-(octyloxy)phenyl]methyl]amino]propyl](9CI) (CA INDEX NAME)

RN 569682-68-4 HCAPLUS

CN Phosphonic acid, [3-[[[4-(nonyloxy)phenyl]methyl]amino]propyl](9CI) (CA INDEX NAME)

RN 569682-73-1 HCAPLUS

CN Phosphonic acid, [3-[[(4-octylphenyl)methyl]amino]propyl]- (9CI) (CA INDEX NAME)

RN 569682-91-3 HCAPLUS

CN Phosphonic acid, [3-[[[3,5-dibromo-4-(octyloxy)phenyl]methyl]amino |propyl]- (9CI) (CA INDEX NAME)

RN 569682-93-5 HCAPLUS

CN Phosphonic acid, [3-[[[3-chloro-4-(octyloxy)phenyl]methyl]amino]pr opyl]- (9CI) (CA INDEX NAME)

RN 569682-97-9 HCAPLUS

CN Phosphonic acid, [3-[[[3-ethoxy-4-(octyloxy)phenyl]methyl]amino]pr
opyl]- (9CI) (CA INDEX NAME)

- RN 569682-99-1 HCAPLUS
- CN Phosphonic acid, [3-[[[3-methyl-4-(octyloxy)phenyl]methyl]amino]pr opyl]- (9CI) (CA INDEX NAME)

- RN 569683-01-8 HCAPLUS
- CN Phosphonic acid, [3-[[[3-fluoro-4-(octyloxy)phenyl]methyl]amino]propyl]- (9CI) (CA INDEX NAME)

- RN 569683-30-3 HCAPLUS
- CN Benzoic acid, 4-[[(3-phosphonopropyl)amino]methyl]-, 1-heptyl
 ester (9CI) (CA INDEX NAME)

- RN 569683-32-5 HCAPLUS
- CN Phosphonic acid, [3-[[[4-(1-hydroxynonyl)phenyl]methyl]amino]propy 1]- (9CI) (CA INDEX NAME)

RN 569683-34-7 HCAPLUS

CN Phosphonic acid, [3-[[[4-(1-oxononyl)phenyl]methyl]amino]propyl]- (9CI) (CA INDEX NAME)

RN 569683-55-2 HCAPLUS

CN Phosphonic acid, [3-[[[3-bromo-5-methoxy-4-(octyloxy)phenyl]methyl]amino]propyl]- (9CI) (CA INDEX NAME)

RN 569683-59-6 HCAPLUS

CN Phosphonic acid, [3-[[[3-bromo-4-(octyloxy)phenyl]methyl]amino]pro pyl]- (9CI) (CA INDEX NAME)

RN 569683-61-0 HCAPLUS

CN Phosphonic acid, [3-[[[3,5-dichloro-4-(octyloxy)phenyl]methyl]amino]propyl]- (9CI) (CA INDEX NAME)

RN 569683-63-2 HCAPLUS

CN Phosphonic acid, [3-[[[3,5-dimethyl-4-(octyloxy)phenyl]methyl]amino]propyl]- (9CI) (CA INDEX NAME)

RN 569683-70-1 HCAPLUS

CN Phosphonic acid, [3-[[[3-methoxy-5-methyl-4-(octyloxy)phenyl]methyl]amino]propyl]- (9CI) (CA INDEX NAME)

RN 569683-76-7 HCAPLUS

CN Phosphonic acid, [3-[[[3-methoxy-4-(octyloxy)phenyl]methyl]amino]p
ropyl]- (9CI) (CA INDEX NAME)

RN 569683-78-9 HCAPLUS

CN Phosphonic acid, [3-[[[3-chloro-5-methoxy-4-(octyloxy)phenyl]methyl]amino]propyl]- (9CI) (CA INDEX NAME)

RN 569683-81-4 HCAPLUS

CN Phosphonic acid, [3-[[[3-bromo-5-methoxy-4- (nonyloxy)phenyl]methyl]amino]propyl]- (9CI) (CA INDEX NAME)

RN 569683-82-5 HCAPLUS

CN Phosphonic acid, [3-[[[3-bromo-4-(heptyloxy)-5methoxyphenyl]methyl]amino]propyl]- (9CI) (CA INDEX NAME)

RN 569683-89-2 HCAPLUS
CN Phosphonic acid, [3-[[[3-bromo-4-(decyloxy)-5-

methoxyphenyl]methyl]amino]propyl]- (9CI) (CA INDEX NAME)

RN 569683-90-5 HCAPLUS

CN Phosphonic acid, [3-[[[3-bromo-4-(hexyloxy)-5-methoxyphenyl]methyl]amino]propyl]- (9CI) (CA INDEX NAME)

RN 569683-92-7 HCAPLUS

CN Phosphonic acid, [3-[[[3-bromo-5-methoxy-4-(undecyloxy)phenyl]methyl]amino]propyl]- (9CI) (CA INDEX NAME)

RN 569684-01-1 HCAPLUS

CN Phosphonic acid, [3-[[[3-hydroxy-4-(octyloxy)phenyl]methyl]amino]p
ropyl]- (9CI) (CA INDEX NAME)

RN 569684-32-8 HCAPLUS

CN Phosphonic acid, [3-[[(4'-hexyl[1,1'-biphenyl]-4-yl)methyl]amino]propyl]- (9CI) (CA INDEX NAME)

```
569684-50-0 HCAPLUS
RN
     Phosphonic acid, [3-[[(4-nonylphenyl)methyl]amino]propyl]- (9CI)
CN
     (CA INDEX NAME)
                           /(CH2)8-Me
 H2O3P- (CH2)3-NH-CH
    1-3 (Pharmacology)
     Section cross-reference(s): 25
     569682-67-3P 569682-68-4P 569682-73-1P
TT
     569682-91-3P 569682-93-5P 569682-97-9P
     569682-99-1P 569683-01-8P 569683-30-3P
     569683-32-5P 569683-34-7P 569683-55-2P
     569683-59-6P 569683-61-0P 569683-63-2P
     569683-70-1P 569683-76-7P 569683-78-9P
     569683-81-4P 569683-82-5P 569683-89-2P
     569683-90-5P 569683-92-7P 569684-01-1P
     569684-32-8P 569684-50-0P 724458-96-2P
     724458-97-3P
     RL: ADV (Adverse effect, including toxicity); PAC (Pharmacological
     activity); SPN (Synthetic preparation); THU (Therapeutic use);
     BIOL (Biological study); PREP (Preparation); USES (Uses)
        (selecting against S1P3 enhances acute cardiovascular
        tolerability of 3-(N-benzyl)aminopropylphosphonic acid S1P
        receptor agonists)
REFERENCE COUNT:
                         18
                               THERE ARE 18 CITED REFERENCES AVAILABLE
                               FOR THIS RECORD. ALL CITATIONS AVAILABLE
                               IN THE RE FORMAT
L134 ANSWER 11 OF 12 HCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER:
                         2004:465499 HCAPLUS Full-text
DOCUMENT NUMBER:
                         141:133550
TITLE:
                         The discovery of 3-(N-
                         alkyl)aminopropylphosphonic acids as potent
                         S1P receptor agonists
AUTHOR(S):
                         Hale, Jeffrey J.; Doherty, George; Toth,
                         Leslie; Li, Zhen; Mills, Sander G.; Hajdu,
                         Richard; Keohane, Carol Ann; Rosenbach, Mark;
                         Milligan, James; Shei, Gan-Ju; Chrebet, Gary;
                         Bergstrom, James; Card, Deborah; Rosen, Hugh;
                         Mandala, Suzanne
                         Department of Medicinal Chemistry, Merck
CORPORATE SOURCE:
                         Research Laboratories, Rahway, NJ, 07065, USA
SOURCE:
                         Bioorganic & Medicinal Chemistry Letters
                         (2004), 14(13), 3495-3499
                         CODEN: BMCLE8; ISSN: 0960-894X
PUBLISHER:
                         Elsevier Science B.V.
DOCUMENT TYPE:
                         Journal
LANGUAGE:
                         English
OTHER SOURCE(S):
                         CASREACT 141:133550
    Entered STN: 10 Jun 2004
     3-(N-Alkyl) aminopropylphosphonic acids are potent agonists of four of the five known
     sphingosine-1-phosphate (S1P) receptor subtypes and are useful in immunosuppressive
     therapy.
TT
     569684-50-0P
     RL: PAC (Pharmacological activity); SPN (Synthetic preparation);
     THU (Therapeutic use); BIOL (Biological study); PREP
     (Preparation); USES (Uses)
```

(preparation, immunomodulatory effect and structure-activity

relationship studies of 3-(N-alkyl)aminopropylphosphonic acids as potent S1P receptor agonists)

569684-50-0 HCAPLUS RN

CNPhosphonic acid, [3-[[(4-nonylphenyl)methyl]amino]propyl]- (9CI) (CA INDEX NAME)

569684-52-2 ΙT

> RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(preparation, immunomodulatory effect and structure-activity relationship studies of 3-(N-alkyl)aminopropylphosphonic acids as potent S1P receptor agonists)

RN 569684-52-2 HCAPLUS

Phosphinic acid, [3-[[(4-nonylphenyl)methyl]amino]propyl]- (9CI) CN (CA INDEX NAME)

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CC
    1-3 (Pharmacology)
    Section cross-reference(s): 21
                                 725724-59-4P
ΙT
    569684-50-0P 725724-58-3P
                                                 725724-60-7P
    725724-61-8P
                  725724-62-9P
                                 725724-63-0P 725724-64-1P
     725724-65-2P
                  725724-66-3P
    RL: PAC (Pharmacological activity); SPN (Synthetic preparation);
    THU (Therapeutic use); BIOL (Biological study); PREP
     (Preparation); USES (Uses)
        (preparation, immunomodulatory effect and structure-activity
       relationship studies of 3-(N-alkyl)aminopropylphosphonic acids
       as potent S1P receptor agonists)
                 569682-76-4 569682-79-7
     402615-91-2
                                              569682-80-0
TT
     569682-84-4 569682-85-5 569682-86-6 569684-52-2
     596819-84-0 597340-18-6 597340-90-4
                                              597340-97-1
     597341-03-2 597341-12-3 725724-57-2
    RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
     (Biological study); USES (Uses)
        (preparation, immunomodulatory effect and structure-activity
       relationship studies of 3-(N-alkyl)aminopropylphosphonic acids
       as potent S1P receptor agonists)
REFERENCE COUNT:
                        9
                              THERE ARE 9 CITED REFERENCES AVAILABLE
                              FOR THIS RECORD. ALL CITATIONS AVAILABLE
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L134 ANSWER 12 OF 12 HCAPLUS COPYRIGHT 2007 ACS on STN 2004:368306 HCAPLUS Full-text ACCESSION NUMBER: DOCUMENT NUMBER: 141:99302

Immune cell regulation and cardiovascular TITLE: effects of sphingosine 1-phosphate receptor agonists in rodents are mediated via distinct

receptor subtypes

AUTHOR(S): Forrest, M.; Sun, S.-Y.; Hajdu, R.; Bergstrom, J.; Card, D.; Doherty, G.; Hale, J.; Keohane, C.; Meyers, C.; Milligan, J.; Mills, S.;

IN THE RE FORMAT

Nomura, N.; Rosen, H.; Rosenbach, M.; Shei, G.-J.; Singer, I. I.; Tian, M.; West, S.; White, V.; Xie, J.; Proia, R. L.; Mandala, S.

Departments of Immunology and Rheumatology,

Pharmacology, and Medicinal Chemistry, Merck Research Laboratories, Rahway, NJ, USA

Journal of Pharmacology and Experimental

Therapeutics (2004), 309(2), 758-768 CODEN: JPETAB; ISSN: 0022-3565

PUBLISHER: American Society for Pharmacology and

Experimental Therapeutics

DOCUMENT TYPE: Journal LANGUAGE: English ED Entered STN: 06 May 2004

CORPORATE SOURCE:

SOURCE:

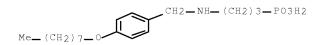
AΒ Sphingosine 1-phosphate (S1P) is a bioactive lysolipid with pleiotropic functions mediated through a family of G protein-coupled receptors, S1P1,2,3,4,5. Physiol. effects of S1P receptor agonists include regulation of cardiovascular function and immunosuppression via redistribution of lymphocytes from blood to secondary lymphoid organs. The phosphorylated metabolite of the immunosuppressant agent FTY720 (2-amino-2-(2-[4- octylphenyl]ethyl)-1,3-propanediol) and other phosphonate analogs with differential receptor selectivity were investigated. No significant species differences in compound potency or rank order of activity on receptors cloned from human, murine, and rat sources were observed All synthetic analogs were high-affinity agonists on S1P1, with IC50 values for ligand binding between 0.3 and 14 nM. The correlation between S1P1 receptor activation and the ED50 for lymphocyte reduction was highly significant (p < 0.001) and lower for the other receptors. In contrast to S1P1mediated effects on lymphocyte recirculation, three lines of evidence link S1P3 receptor activity with acute toxicity and cardiovascular regulation: compound potency on S1P3 correlated with toxicity and bradycardia; the shift in potency of phosphorylated-FTY720 for inducing lymphopenia vs. bradycardia and hypertension was consistent with affinity for S1P1 relative to S1P3; and toxicity, bradycardia, and hypertension were absent in S1P3-/- mice. Blood pressure effects of agonists in anesthetized rats were complex, whereas hypertension was the predominant effect in conscious rats and mice. Immunolocalization of S1P3 in rodent heart revealed abundant expression on myocytes and perivascular smooth muscle cells consistent with regulation of bradycardia and hypertension, whereas S1P1 expression was restricted to the vascular endothelium.

IT 569682-67-3 569683-55-2 569683-90-5

RL: PAC (Pharmacological activity); BIOL (Biological study) (immune cell regulation and cardiovascular effects of sphingosine 1-phosphate receptor agonists in rodents are mediated via distinct receptor subtypes)

RN 569682-67-3 HCAPLUS

CN Phosphonic acid, [3-[[[4-(octyloxy)phenyl]methyl]amino]propyl]- (9CI) (CA INDEX NAME)



RN 569683-55-2 HCAPLUS

CN Phosphonic acid, [3-[[[3-bromo-5-methoxy-4-(octyloxy)phenyl]methyl]amino[propyl]- (9CI) (CA INDEX NAME)

RN 569683-90-5 HCAPLUS
CN Phosphonic acid, [3-[[[3-bromo-4-(hexyloxy)-5-methoxyphenyl]methyl]amino]propyl]- (9CI) (CA INDEX NAME)

CC 1-7 (Pharmacology)
IT 26993-30-6, Sphingosine 1 phosphate 402615-91-2
569682-67-3 569683-55-2 569683-90-5
719286-66-5 719286-67-6

RL: PAC (Pharmacological activity); BIOL (Biological study) (immune cell regulation and cardiovascular effects of sphingosine 1-phosphate receptor agonists in rodents are mediated via distinct receptor subtypes)

REFERENCE COUNT: 40 THERE ARE 40 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

FULL SEARCH HISTORY

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=> d his nofile
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L1

(FILE 'HOME' ENTERED AT 09:32:45 ON 27 JUL 2007)

FILE 'HCAPLUS' ENTERED AT 09:33:39 ON 27 JUL 2007 E US20050070506/PN

1 SEA ABB=ON PLU=ON US20050070506/PN D ALL

SEL RN

FILE 'REGISTRY' ENTERED AT 09:34:34 ON 27 JUL 2007 L2 424 SEA ABB=ON PLU=ON (100-83-4/BI OR 101385-93-7/BI OR 101500-22-5/BI OR 103057-44-9/BI OR 103680-62-2/BI OR 103680-71-3/BI OR 10521-91-2/BI OR 106-41-2/BI OR 107-13-1/BI OR 108898-23-3/BI OR 110943-74-3/BI OR 111-70-6/BI OR 111-86-4/BI OR 1203-68-5/BI OR 1204-60-0 /BI OR 121-32-4/BI OR 121-33-5/BI OR 121118-78-3/BI OR 123-08-0/BI OR 130592-02-8/BI OR 13138-33-5/BI OR 131888-48-7/BI OR 13214-66-9/BI OR 13477-53-7/BI OR 13631-21-5/BI OR 13880-74-5/BI OR 139-85-5/BI OR 143-16-8/BI OR 146936-34-7/BI OR 148547-19-7/BI OR 149104-89-2/BI OR 15174-69-3/BI OR 167279-18-7/BI OR 169806-13-7/BI OR 17012-21-4/BI OR 18278-34-7/BI OR 188846-99-3/BI OR 19463-48-0/BI OR 198959-37-4/BI OR 2052-07-5/BI OR 208108-76-3/BI OR 2113-57-7/BI OR 2233-18-3/BI OR 2314-36-5/BI OR 23703-22-2/BI OR 2374-05-2/BI OR 24076-33-3/BI OR 24083-12-3/BI OR 24083-13-4/BI OR 2420-16-8/BI OR 2439-54-5/BI OR 246847-91-6/BI OR 2495-35-4/BI OR 25006-17-1/BI OR 256488-46-7/BI OR 2973-76-4/BI OR 2973-77-5/BI OR 2973-78-6/BI OR 3111-37-3/BI OR 3132-99-8/BI OR 3261-62-9/BI OR 3300-51-4/BI OR 3453-33-6/BI OR 350-92-5/BI OR 35622-27-6/BI OR 36476-78-5/BI OR 3761-92-0/BI OR 38841-98-4/BI OR 3964-56-5/BI OR 401-95-6/BI OR 40499-83-0/BI OR 4282-40-0/BI OR 4282-42-2/BI OR 4282-44-4/BI OR 4815-96-7/BI OR 49763-67-9/BI OR 49763-69-1/BI OR 500191-05-9/BI OR 50262-46-9/BI OR 50773-56-3/BI OR 51572-88-4/BI OR 542-69-8/BI OR 54256-43-8/BI OR 5438-36-8/BI OR 54784-14-4/BI OR 54963-70-1/BI OR 556-18-3/BI OR 56-12-2/BI OR 56217-93-7/BI OR 56308-79-3/BI OR 56962-11-9/BI OR 569682-66-2/BI OR 569682-67-3/BI OR 569682-68-4/BI OR 569682-69-5/BI OR 569682-70-8/BI OR 569682-71-9/BI OR 569682-72-0/BI OR 569682-73-1/BI OR 569682-74-2/BI OR 569682-75-3/BI OR 569682-77-5/BI OR 569682-78-6/BI OR 569682-79-7/BI OR 569682-80-0/BI OR 569682-81-1/BI OR 569 L3 71 SEA ABB=ON PLU=ON L2 AND 1/NR AND 1/P AND 1/N D 1-3 STR RSD

154 SEA ABB=ON PLU=ON L2 AND 1/P

L4

FILE 'HCAPLUS' ENTERED AT 09:39:18 ON 27 JUL 2007 L5 140355 SEA ABB=ON PLU=ON L2

FILE 'REGISTRY' ENTERED AT 09:39:32 ON 27 JUL 2007

FILE 'HCAPLUS' ENTERED AT 09:42:04 ON 27 JUL 2007 D SCAN L1

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36 SEA ABB=ON PLU=ON L2 AND C4S/RF L8

L9 L10		D SCAN 67 SEA ABB=ON PLU=ON L2 AND C4N/RF 7 SEA ABB=ON PLU=ON L8 AND L9 D SCAN
	FILE	'STNGUIDE' ENTERED AT 09:47:31 ON 27 JUL 2007
L11 L12		'REGISTRY' ENTERED AT 09:58:25 ON 27 JUL 2007 7 SEA ABB=ON PLU=ON L2 AND C2N2O/RF 1 SEA ABB=ON PLU=ON L10 AND L11 D SCAN D SCAN L12 D SCAN L11
L13 L14 L15		43 SEA ABB=ON PLU=ON L2 AND 3/F 36 SEA ABB=ON PLU=ON L13 AND L8 7 SEA ABB=ON PLU=ON L13 AND L10 D SCAN
	FILE	'STNGUIDE' ENTERED AT 10:03:40 ON 27 JUL 2007
L16	FILE	'REGISTRY' ENTERED AT 10:05:33 ON 27 JUL 2007 12 SEA ABB=ON PLU=ON L2 AND C3N/RF D SCAN
	FILE	'STNGUIDE' ENTERED AT 10:06:39 ON 27 JUL 2007
L17 L18		'REGISTRY' ENTERED AT 10:07:56 ON 27 JUL 2007 6 SEA ABB=ON PLU=ON L16 AND L8 1 SEA ABB=ON PLU=ON L16 AND L11
	FILE	'STNGUIDE' ENTERED AT 10:08:37 ON 27 JUL 2007 D SCAN L18
	FILE	'REGISTRY' ENTERED AT 10:08:53 ON 27 JUL 2007 D SCAN L17 D SCAN L18
	FILE	'STNGUIDE' ENTERED AT 10:09:12 ON 27 JUL 2007
	FILE	'REGISTRY' ENTERED AT 10:12:52 ON 27 JUL 2007 D RSD
L19 L20		40 SEA ABB=ON PLU=ON L9 AND C6/RF AND 2/NR 9 SEA ABB=ON PLU=ON L19 AND 4/O D SCAN
L21 L22		1 SEA ABB=ON PLU=ON L20 AND C22 H33 N O4/MF 2 SEA ABB=ON PLU=ON L9 AND 1/F D SCAN D SCAN L12
L23		1 SEA ABB=ON PLU=ON L16 AND 2/NR AND 2/O D SCAN
L24 L25		22 SEA ABB=ON PLU=ON L9 AND 2/NR AND 2-3/O AND C6/RF 11 SEA ABB=ON PLU=ON L24 AND 2/O
L26		D SCAN 2 SEA ABB=ON PLU=ON L25 AND 21/C
L27		D SCAN 4 SEA ABB=ON PLU=ON L24 AND 20/C AND 3/O D SCAN
L28		6 SEA ABB=ON PLU=ON L2 AND 2/BR D SCAN
L29		3 SEA ABB=ON PLU=ON L28 AND 2/NR D SCAN
L30		D QUE 6 SEA ABB=ON PLU=ON L9 AND 2/NR AND 5/O AND 1/P D SCAN
L31 L32		6 SEA ABB=ON PLU=ON L15 AND 4/NR 5 SEA ABB=ON PLU=ON L31 AND 3/O D SCAN

13		10/201	1.0
D SCAN D			
L35	L34		O ?NAPHTH?/CNS
136	L35	5 SEA ABB=ON PLU=ON L34 A	ND 20-30/C
FILE 'STNGUIDE' ENTERED AT 10:53:32 ON 27 JUL 2007	L36		2/NR NOT ((L8 OR L9) OR 11)
FILE 'STNGUIDE' ENTERED AT 10:53:32 ON 27 JUL 2007	т 27	AA CEN ADD-ON DIII-ON I 2 ANI) SDIDUENNI S/CNC
FILE 'REGISTRY' ENTERED AT 10:57:53 ON 27 JUL 2007 L38 32 SEA ABB=ON PLU=ON L37 AND 20-100/C D QUE L40 0 SEA ABB=ON PLU=ON L37 AND 1-5/S D SCAN L3 L41 68 SEA ABB=ON PLU=ON L37 AND 1-5/S D SCAN L3 L41 68 SEA ABB=ON PLU=ON L37 AND 1-5/S D SCAN L3 L41 68 SEA ABB=ON PLU=ON L41 AND 12-50/C D SCAN FILE 'STNGUIDE' ENTERED AT 11:12:32 ON 27 JUL 2007 FILE 'REGISTRY' ENTERED AT 11:18:09 ON 27 JUL 2007 FILE 'REGISTRY' ENTERED AT 11:18:09 ON 27 JUL 2007 FILE 'REGISTRY' ENTERED AT 11:18:09 ON 27 JUL 2007 L43 157 SEA ABB=ON PLU=ON L6 OR (L10 OR L11 OR L12 OR L13 OR L14 OR L22 OR L23 OR L24 OR L25 OR L26 OR L27 OR L28 OR L29 OR L20 OR L21 OR L20 OR L20 OR L21 OR L20 OR L21 OR L20 OR L21 OR L20 OR L	107		J :BIFHENIL:/CNS
L38		FILE 'STNGUIDE' ENTERED AT 10:53:32	ON 27 JUL 2007
L39	* 20		
L40			
D SCAN L3		D QUE	
L41	L40		ND 1-5/S
FILE 'STNGUIDE' ENTERED AT 11:12:32 ON 27 JUL 2007 FILE 'REGISTRY' ENTERED AT 11:18:09 ON 27 JUL 2007 L43	L41	68 SEA ABB=ON PLU=ON L3 ANI	•
FILE 'REGISTRY' ENTERED AT 11:18:09 ON 27 JUL 2007 L43 157 SEA ABB=ON PLU=ON L6 OR (L10 OR L11 OR L12 OR L13 OR L14 OR L15 OR L16 OR L17 OR L18) OR (L19 OR L20 OR L21 OR L22 OR L23 OR L24 OR L25 OR L26 OR L27 OR L28 OR L29 OR L30 OR L31 OR L32 OR L33) OR L35 OR L38 L44 199 SEA ABB=ON PLU=ON (L41 OR L42 OR L43) FILE 'HCAPLUS' ENTERED AT 11:20:11 ON 27 JUL 2007 L45 849 SEA ABB=ON PLU=ON L44 QUE ABB=ON PLU=ON L45 AND L46 D SCAN L1 L48 QUE ABB=ON PLU=ON L45 AND L46 D SCAN L1 L49 270 SEA ABB=ON PLU=ON L47 AND L48 L50 QUE ABB=ON PLU=ON L47 AND L50 D SCAN E IMMUNOSUPPRESS: OR REG?) L51 7 SEA ABB=ON PLU=ON L49 AND L50 D SCAN E IMMUNOSUPPRESSIVES/CT E IMMUNOSUPPRESSIVES/CT E IMMUNOSUPPRESSIVES/CT E IMMUNOSUPPRESSIVES/CT E AGONIS/CT AGONIS/CT E AGONIS/CT E AGONIS/CT E AGONIS/CT E ANTAG/CT E ANTAGONISTS/CT E ANTAGONISMS/CT E E3+ALL QUE ABB=ON PLU=ON L49 AND (L52 OR L53) D SCAN E ANTAGONISMS/CT E E3+ALL QUE ABB=ON PLU=ON AGON? OR ANTAGON L57 QUE ABB=ON PLU=ON AGON? OR ANTAG? L58 79 SEA ABB=ON PLU=ON D L***-L*** KWIC D 70-79 KWIC L59 QUE ABB=ON PLU=ON D 1-2 KWIC L60 AND L49 D 1-2 KWIC	L42		ND 12-50/C
FILE 'REGISTRY' ENTERED AT 11:18:09 ON 27 JUL 2007 L43 157 SEA ABB=ON PLU=ON L6 OR (L10 OR L11 OR L12 OR L13 OR L14 OR L15 OR L16 OR L17 OR L18) OR (L19 OR L20 OR L21 OR L22 OR L23 OR L24 OR L25 OR L26 OR L27 OR L28 OR L29 OR L30 OR L31 OR L32 OR L33) OR L35 OR L38 L44 199 SEA ABB=ON PLU=ON (L41 OR L42 OR L43) FILE 'HCAPLUS' ENTERED AT 11:20:11 ON 27 JUL 2007 L45 849 SEA ABB=ON PLU=ON L44 QUE ABB=ON PLU=ON L45 AND L46 D SCAN L1 L48 QUE ABB=ON PLU=ON L45 AND L46 D SCAN L1 L49 270 SEA ABB=ON PLU=ON L47 AND L48 L50 QUE ABB=ON PLU=ON L47 AND L50 D SCAN E IMMUNOSUPPRESS: OR REG?) L51 7 SEA ABB=ON PLU=ON L49 AND L50 D SCAN E IMMUNOSUPPRESSIVES/CT E IMMUNOSUPPRESSIVES/CT E IMMUNOSUPPRESSIVES/CT E IMMUNOSUPPRESSIVES/CT E AGONIS/CT AGONIS/CT E AGONIS/CT E AGONIS/CT E AGONIS/CT E ANTAG/CT E ANTAGONISTS/CT E ANTAGONISMS/CT E E3+ALL QUE ABB=ON PLU=ON L49 AND (L52 OR L53) D SCAN E ANTAGONISMS/CT E E3+ALL QUE ABB=ON PLU=ON AGON? OR ANTAGON L57 QUE ABB=ON PLU=ON AGON? OR ANTAG? L58 79 SEA ABB=ON PLU=ON D L***-L*** KWIC D 70-79 KWIC L59 QUE ABB=ON PLU=ON D 1-2 KWIC L60 AND L49 D 1-2 KWIC		FILE 'STUCHIOE' FUTERED AT 11.12.32	ON 27 JUL 2007
157 SEA ABB=ON PLU=ON L6 OR (L10 OR L11 OR L12 OR L13 OR L14 OR L15 OR L16 OR L17 OR L18) OR (L19 OR L20 OR L21 OR L22 OR L23 OR L24 OR L25 OR L26 OR L27 OR L28 OR L29 OR L30 OR L31 OR L32 OR L33) OR L35 OR L38 OR L24 OR L25 OR L26 OR L27 OR L28 OR L29 OR L30 OR L31 OR L32 OR L33) OR L35 OR L38 OR L34 OR L35 OR L38 OR L36 OR L37 OR L38 OR L36 OR L37 OR L38 OR L38 OR L38 OR L38 OR L38 OR L38 OR L34 OR L44 OR L42 OR L43) FILE 'HCAPLUS' ENTERED AT 11:20:110 ON 27 JUL 2007			
L14 OR L15 OR L16 OR L17 OR L18) OR (L19 OR L20 OR L21 OR L22 OR L23 OR L24 OR L25 OR L26 OR L27 OR L28 OR L29 OR L30 OR L31 OR L32 OR L33) OR L35 OR L38	т 40		
L29 OR L30 OR L31 OR L32 OR L33) OR L35 OR L38	Ь43		·
Tile			
FILE 'HCAPLUS' ENTERED AT 11:20:11 ON 27 JUL 2007 L45 849 SEA ABB=ON PLU=ON L44 L46 QUE ABB=ON PLU=ON L45 AND L46 D SCAN L1 QUE ABB=ON PLU=ON PY<2003 OR PRY<2003 OR AY<2003 OR MY<2003 OR REVIEW/DT L49 270 SEA ABB=ON PLU=ON L47 AND L48 L50 QUE ABB=ON PLU=ON L49 AND L50 D SCAN IMMUN(A) (SUPPRESS: OR REG?) L51 7 SEA ABB=ON PLU=ON L49 AND L50 D SCAN E IMMUNOSUPPRESSIVES/CT E IMMUNOSUPPRESSIVES/CT E IMMUNOSUPPRESSIVES/CT E AGONIS/CT E AGONIS/CT E AGONIS/CT E AGONIS/CT E ANTAGONISTS/CT E ANTAGONISTS/CT E ANTAGONISTS/CT E ANTAGONISTS/CT E ANTAGONISM/CT E ANTAGONISM/CT E E S+ALL QUE ABB=ON PLU=ON ANTAGONISM+PFT, OLD, NT/CT L55 QUE ABB=ON PLU=ON L49 AND L55 D SCAN E ANTAGONISM/CT E ANTAGONISM/CT E ANTAGONISM/CT E ASBBON PLU=ON L49 AND L55 QUE ABBBON PLU=ON L49 AND L57 D L***-L*** KWIC D 70-79 KWIC L59 QUE ABB=ON PLU=ON EDGI(A)SIP? L60 19 SEA ABBON PLU=ON D EDGI(A)SIP? L61 2 SEA ABBON PLU=ON L60 AND L49 D 1-2 KWIC	т. 4.4		
L45	БТТ	133 881 1188-011 1 180-011 (1111)	on Hiz on His
L46	T 4 E		N 27 JUL 2007
L47			AC?/SC.SX
L48		483 SEA ABB=ON PLU=ON L45 A	
MY<2003 OR REVIEW/DT	т.48)3 OR PRY<2003 OR AY<2003 OR
QUE ABB=ON PLU=ON IMMUNOSUPPRESS? OR IMMUNOREG? OR IMMUN? (A) (SUPPRESS? OR REG?) L51	110	MY<2003 OR REVIEW/DT	
MMUN?(A) (SUPPRESS? OR REG?) L51			
L51	Г20	-	
E IMMUNOSUPPRESSIVES/CT E IMMUNOSUP/CT QUE ABB=ON PLU=ON IMMUNOSUPPRESSANTS+PFT,OLD,NT/CT QUE ABB=ON PLU=ON IMMUNOSUPPRESSION+PFT,OLD,NT/CT E AGON/CT E AGON/CT L54 6 SEA ABB=ON PLU=ON L49 AND (L52 OR L53) D SCAN E ANTAGONISTS/CT E ANTAG/CT E ANTAG/CT E ANTAGONISM/CT E E3+ALL QUE ABB=ON PLU=ON ANTAGONISM+PFT,OLD,NT/CT L56 0 SEA ABB=ON PLU=ON L49 AND L55 QUE ABB=ON PLU=ON AGON? OR ANTAG? L57 QUE ABB=ON PLU=ON L49 AND L57 D L***-L*** KWIC D 70-79 KWIC QUE ABB=ON PLU=ON EDG1(A)S1P? L60 19 SEA ABB=ON PLU=ON EDG1(A)S1P? L61 2 SEA ABB=ON PLU=ON L60 AND L49 D 1-2 KWIC	L51	7 SEA ABB=ON PLU=ON L49 A	
E IMMUNOSUP/CT QUE ABB=ON PLU=ON IMMUNOSUPPRESSANTS+PFT,OLD,NT/CT L53 QUE ABB=ON PLU=ON IMMUNOSUPPRESSION+PFT,OLD,NT/CT E AGONIS/CT E AGON/CT E AGON/CT L54 6 SEA ABB=ON PLU=ON L49 AND (L52 OR L53) D SCAN E ANTAGONISTS/CT E ANTAGONISM/CT E E 3+ALL L55 QUE ABB=ON PLU=ON ANTAGONISM+PFT,OLD,NT/CT L56 0 SEA ABB=ON PLU=ON L49 AND L55 L57 QUE ABB=ON PLU=ON AGON? OR ANTAG? L58 79 SEA ABB=ON PLU=ON L49 AND L57 D L***-L*** KWIC D 70-79 KWIC L59 QUE ABB=ON PLU=ON EDG1(A)S1P? L60 19 SEA ABB=ON PLU=ON EDG1(A)S1P? L61 2 SEA ABB=ON PLU=ON L60 AND L49 D 1-2 KWIC			
L53			
E AGONIS/CT E AGON/CT L54 6 SEA ABB=ON PLU=ON L49 AND (L52 OR L53) D SCAN E ANTAGONISTS/CT E ANTAG/CT E ANTAGONISM/CT E E3+ALL L55 QUE ABB=ON PLU=ON ANTAGONISM+PFT, OLD, NT/CT L56 0 SEA ABB=ON PLU=ON L49 AND L55 QUE ABB=ON PLU=ON AGON? OR ANTAG? L58 79 SEA ABB=ON PLU=ON L49 AND L57 D L***-L*** KWIC D 70-79 KWIC QUE ABB=ON PLU=ON EDG1(A)S1P? L60 19 SEA ABB=ON PLU=ON EDG1(A)S1P? L61 2 SEA ABB=ON PLU=ON L60 AND L49 D 1-2 KWIC			
E AGON/CT 6 SEA ABB=ON PLU=ON L49 AND (L52 OR L53) D SCAN E ANTAGONISTS/CT E ANTAGONISM/CT E E3+ALL L55 QUE ABB=ON PLU=ON ANTAGONISM+PFT, OLD, NT/CT L56 0 SEA ABB=ON PLU=ON L49 AND L55 QUE ABB=ON PLU=ON AGON? OR ANTAG? L58 79 SEA ABB=ON PLU=ON L49 AND L57 D L***-L*** KWIC D 70-79 KWIC QUE ABB=ON PLU=ON EDG1(A)S1P? L60 19 SEA ABB=ON PLU=ON EDG1(A)S1P? L61 2 SEA ABB=ON PLU=ON L60 AND L49 D 1-2 KWIC	Ь53		DSUPPRESSION+PET, OLD, NT/CT
D SCAN E ANTAGONISTS/CT E ANTAGONISM/CT E E3+ALL L55 QUE ABB=ON PLU=ON ANTAGONISM+PFT, OLD, NT/CT L56 0 SEA ABB=ON PLU=ON L49 AND L55 L57 QUE ABB=ON PLU=ON AGON? OR ANTAG? L58 79 SEA ABB=ON PLU=ON L49 AND L57 D L***-L*** KWIC D 70-79 KWIC QUE ABB=ON PLU=ON EDG1(A)S1P? L60 19 SEA ABB=ON PLU=ON EDG1(A)S1P? D 1-3 KWIC L61 2 SEA ABB=ON PLU=ON L60 AND L49 D 1-2 KWIC			
E ANTAGONISTS/CT E ANTAG/CT E ANTAGONISM/CT E E3+ALL L55 QUE ABB=ON PLU=ON ANTAGONISM+PFT, OLD, NT/CT L56 0 SEA ABB=ON PLU=ON L49 AND L55 L57 QUE ABB=ON PLU=ON AGON? OR ANTAG? L58 79 SEA ABB=ON PLU=ON L49 AND L57 D L***-L*** KWIC D 70-79 KWIC QUE ABB=ON PLU=ON EDG1(A)S1P? L60 19 SEA ABB=ON PLU=ON EDG1(A)S1P? L61 2 SEA ABB=ON PLU=ON L60 AND L49 D 1-2 KWIC	L54		ND (L52 OR L53)
E ANTAGONISM/CT E E3+ALL L55 QUE ABB=ON PLU=ON ANTAGONISM+PFT, OLD, NT/CT L56 0 SEA ABB=ON PLU=ON L49 AND L55 L57 QUE ABB=ON PLU=ON AGON? OR ANTAG? L58 79 SEA ABB=ON PLU=ON L49 AND L57 D L***-L*** KWIC D 70-79 KWIC QUE ABB=ON PLU=ON EDG1(A)S1P? L60 19 SEA ABB=ON PLU=ON EDG1(A)S1P? D 1-3 KWIC L61 2 SEA ABB=ON PLU=ON L60 AND L49 D 1-2 KWIC			
E E3+ALL L55 QUE ABB=ON PLU=ON ANTAGONISM+PFT,OLD,NT/CT L56 0 SEA ABB=ON PLU=ON L49 AND L55 L57 QUE ABB=ON PLU=ON AGON? OR ANTAG? L58 79 SEA ABB=ON PLU=ON L49 AND L57 D L***-L*** KWIC D 70-79 KWIC L59 QUE ABB=ON PLU=ON EDG1(A)S1P? L60 19 SEA ABB=ON PLU=ON EDG1(A)S1P? D 1-3 KWIC L61 2 SEA ABB=ON PLU=ON L60 AND L49 D 1-2 KWIC			
L55 QUE ABB=ON PLU=ON ANTAGONISM+PFT,OLD,NT/CT L56 0 SEA ABB=ON PLU=ON L49 AND L55 L57 QUE ABB=ON PLU=ON AGON? OR ANTAG? L58 79 SEA ABB=ON PLU=ON L49 AND L57 D L***-L*** KWIC D 70-79 KWIC QUE ABB=ON PLU=ON EDG1(A)S1P? L60 19 SEA ABB=ON PLU=ON EDG1(A)S1P? D 1-3 KWIC L61 2 SEA ABB=ON PLU=ON L60 AND L49 D 1-2 KWIC			
L57 QUE ABB=ON PLU=ON AGON? OR ANTAG? L58 79 SEA ABB=ON PLU=ON L49 AND L57 D L***-L*** KWIC D 70-79 KWIC L59 QUE ABB=ON PLU=ON EDG1(A)S1P? L60 19 SEA ABB=ON PLU=ON EDG1(A)S1P? D 1-3 KWIC L61 2 SEA ABB=ON PLU=ON L60 AND L49 D 1-2 KWIC	L55		ONISM+PFT,OLD,NT/CT
L58 79 SEA ABB=ON PLU=ON L49 AND L57 D L***-L*** KWIC D 70-79 KWIC L59 QUE ABB=ON PLU=ON EDG1(A)S1P? L60 19 SEA ABB=ON PLU=ON EDG1(A)S1P? D 1-3 KWIC L61 2 SEA ABB=ON PLU=ON L60 AND L49 D 1-2 KWIC			
D L***-L*** KWIC D 70-79 KWIC L59 QUE ABB=ON PLU=ON EDG1(A)S1P? L60 19 SEA ABB=ON PLU=ON EDG1(A)S1P? D 1-3 KWIC L61 2 SEA ABB=ON PLU=ON L60 AND L49 D 1-2 KWIC		_	
L59 QUE ABB=ON PLU=ON EDG1(A)S1P? L60 19 SEA ABB=ON PLU=ON EDG1(A)S1P? D 1-3 KWIC L61 2 SEA ABB=ON PLU=ON L60 AND L49 D 1-2 KWIC			
L60 19 SEA ABB=ON PLU=ON EDG1(A)S1P? D 1-3 KWIC L61 2 SEA ABB=ON PLU=ON L60 AND L49 D 1-2 KWIC	1 50)) c1p2
D 1-3 KWIC L61 2 SEA ABB=ON PLU=ON L60 AND L49 D 1-2 KWIC			
D 1-2 KWIC		D 1-3 KWIC	
	L61		ND L49
	L62		

				10,2011,0
L63	0	SEA ABB=ON E EDG1 RECEI E EDG1 AGON E FTY/CT E GTP/CT E E3+ALL E GTP/CT	PTOR/CT	L49 AND L62
T C 4			D	CEDO OD FEDO
L64	_			GTP? OR FTP?
L65	0	SEA ABB=ON		
L66		QUE ABB=ON	PLU=ON	720
L67	0	SEA ABB=ON	PLU=ON	L49 AND L66
L68		QUE ABB=ON	PLU=ON	AUTOIMMUN?
L69	21	SEA ABB=ON	PLU=ON	L49 AND L68
		D 1-5 KWIC		
L70			PLU=ON	"AUTOIMMUNE DISEASE"+PFT,OLD,NT/CT
L71	32	SEA ABB=ON D SCAN L1	PLU=ON	L49 AND L70
		E INFLAMMAT	•	
L72		QUE ABB=ON	PLU=ON	INFLAMMATION+PFT,OLD,NT/CT
L73	41	SEA ABB=ON	PLU=ON	L49 AND L72
		E INFECTION	/CT	
		E INFECTION:	S/CT	
L74		OUE ABB=ON	PLU=ON	INFECTION+PFT,OLD,NT/CT
L75	15	SEA ABB=ON		
L76				AIDS+PFT,OLD,NT/CT
L77	7	SEA ABB=ON		
L78				ASTHMA+PFT, OLD, NT/CT
L79	16	SEA ABB=ON		
	10	D L1 IT		
L80		QUE ABB=ON	PLU=ON	"RESPIRATORY SYSTEM, DISEASE"+PFT,O
- 6-		LD, NT/CT		- 40 00
L81	29	SEA ABB=ON		
L82				ARTHRITIS+PFT, OLD, NT/CT
L83	22	SEA ABB=ON	PLU=ON	L49 AND L82
		E MUSCULAR	DYSTRO/C	Γ
L84		QUE ABB=ON	PLU=ON	"MUSCULAR DYSTROPHY"+PFT,OLD,NT/CT
L85	3	SEA ABB=ON		
L86		QUE ABB=ON	PLU=ON	"SKIN, DISEASE"+PFT,OLD,NT/CT
L87	30	SEA ABB=ON	PLU=ON	L49 AND L86
		E DERMATITI	S/CT	
		E E3+ALL		
L88		OUE ABB=ON	PLU=ON	DERMATITIS+PFT, OLD, NT/CT
L89	12	SEA ABB=ON		
L90				L51 OR L61 OR L69 OR L71 AND L73
				O OR L81 OR L83 OR L85 OR L89 OR
L91	24	SEA ABB=ON	PLU=ON	L58 AND L90
L92		SEA ABB=ON		
L93		SEA ABB=ON		
L94	_			NEOPLASM+PFT, OLD, NT/CT
L95	44	SEA ABB=ON		• • •
L96		SEA ABB=ON		
П90	52			DO AND DOO
		SAV L96 JEA	I/OHCP/A	
		DEL SEL	DII	
		SEL L96 HIT	KN	
		D SCAN		
		DEL SEL		
		SEL L1 AU		
L97	1272			("DOHERTY, GEORGE A."/AU OR
				."/AU OR "HAJDU, RICHARD"/AU OR
		"HALE, JEFF	REY J."/	AU OR "LI, ZHEN"/AU OR "MANDALA,
		SUZANNE M."	/AU OR "I	MILLS, SANDER G."/AU OR "ROSEN,
				CK, EDWARD M."/AU)
L98				MERCK?/PA,CS,SO,CO
L99	714	SEA ABB=ON		
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T.100
          228 SEA ABB=ON PLU=ON L99 AND L98
             26 SEA ABB=ON PLU=ON L100 AND L50
1 SEA ABB=ON PLU=ON L1 AND L101
28 SEA ABB=ON PLU=ON L96 NOT L101
L101
L102
L103
                D SCAN
     FILE 'REGISTRY' ENTERED AT 12:08:47 ON 27 JUL 2007
1.104
              1 SEA ABB=ON PLU=ON 3300-51-4/RN
                D SCAN
     FILE 'STNGUIDE' ENTERED AT 12:10:46 ON 27 JUL 2007
     FILE 'REGISTRY' ENTERED AT 12:12:43 ON 27 JUL 2007
T.105
          179 SEA ABB=ON PLU=ON L44 AND 18-70/C
     FILE 'HCAPLUS' ENTERED AT 12:13:38 ON 27 JUL 2007
             15 SEA ABB=ON PLU=ON L105
0 SEA ABB=ON PLU=ON L106 AND L103
L106
                D SCAN L106
                D L106 1-15 CC
              3 SEA ABB=ON PLU=ON L106 AND L48
T.108
                D SCAN
    FILE 'REGISTRY' ENTERED AT 12:18:30 ON 27 JUL 2007
        20 SEA ABB=ON PLU=ON L44 NOT L105
               D SCAN
              1 SEA ABB=ON PLU=ON L109 AND C14 H24 N O4 P/MF
L110
T.111
              1 SEA ABB=ON PLU=ON L109 AND C17 H29 BR N O5 P/MF
L112
            181 SEA ABB=ON PLU=ON L105 OR L110 OR L111
    FILE 'HCAPLUS' ENTERED AT 12:23:02 ON 27 JUL 2007
             15 SEA ABB=ON PLU=ON L112
15 SEA ABB=ON PLU=ON L106 OR L113
L113
L114
              3 SEA ABB=ON PLU=ON L114 AND L48
L115
              3 SEA ABB=ON PLU=ON L115 AND (L50 OR (L52 OR L53) OR
L116
                L55 OR L57 OR L59 OR L70 OR L72 OR L74 OR L76 OR L78
                OR L80)
              3 SEA ABB=ON PLU=ON L116 AND (L82 OR L84 OR L86 OR L88
L117
                OR L94)
                D SCAN
                SAV L117 JEA176HCPA/A
              3 SEA ABB=ON PLU=ON L117 NOT L103
T<sub>1</sub>118
T.119
              O SEA ABB=ON PLU=ON L117 NOT L101
              4 SEA ABB=ON PLU=ON L96 AND L50
L120
                D SCAN
              O SEA ABB=ON PLU=ON L120 NOT L101
L121
                D QUE L101
             12 SEA ABB=ON PLU=ON L113 NOT (L118 OR L120)
L122
                D SCAN
                SAV L122 JEA176HCPB/A
    FILE 'REGISTRY' ENTERED AT 12:39:55 ON 27 JUL 2007
              O SEA ABB=ON PLU=ON L112 AND MEDLINE/LC
              O SEA ABB=ON PLU=ON L112 AND BIOSIS/LC
L125
              O SEA ABB=ON PLU=ON L112 AND DRUGU/LC
L126
              O SEA ABB=ON PLU=ON L112 AND EMBASE/LC
               D QUE
     FILE 'MEDLINE, BIOSIS, DRUGU, EMBASE' ENTERED AT 12:40:59 ON 27
     JUL 2007
L127
              0 SEA ABB=ON PLU=ON L126
            608 SEA ABB=ON PLU=ON L97
L128
            277 SEA ABB=ON PLU=ON L128 AND L98
L129
            143 SEA ABB=ON PLU=ON L129 AND L48
L130
              6 SEA ABB=ON PLU=ON L130 AND (L50 OR L59)
L131
                D 1-6 TI
                SAV L131 JEA176MULTIN/A
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FILE 'STNGUIDE' ENTERED AT 12:44:10 ON 27 JUL 2007

FILE 'HCAPLUS' ENTERED AT 12:45:23 ON 27 JUL 2007 SAV L101 JEA176HCPIN/A

FILE 'STNGUIDE' ENTERED AT 12:46:17 ON 27 JUL 2007

D QUE L101

D QUE L101

D QUE L131

FILE 'HCAPLUS, MEDLINE, BIOSIS' ENTERED AT 12:49:36 ON 27 JUL 2007

L132 29 DUP REM L101 L131 (3 DUPLICATES REMOVED)

ANSWERS '1-26' FROM FILE HCAPLUS

ANSWERS '27-29' FROM FILE BIOSIS

D L132 1-29 IBIB ED AB

L133 4 SEA ABB=ON PLU=ON (L106 OR L96) AND L101

D SCAN

D QUE L133

D L133 1-4 IBIB ED ABS FHITSTR HITIND

FILE 'STNGUIDE' ENTERED AT 13:04:20 ON 27 JUL 2007

D QUE L119

D QUE L121

D QUE L122

D QUE L127

FILE 'HCAPLUS' ENTERED AT 13:06:51 ON 27 JUL 2007

L134 12 DUP REM L119 L121 L122 L127 (O DUPLICATES REMOVED)

ANSWERS '1-12' FROM FILE HCAPLUS

D L134 1-12 IBIB ED ABS HITSTR HITIND